Package Contents



Note: Using a power supply with a different voltage rating than the one included with the DHP-1320 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	 An Ethernet-based Cable or DSL modem IEEE 802.11n or 802.11g wireless clients 10/100 Ethernet 	
Web-based Configuration Utility Requirements	 Computer with the following: Windows[°], Macintosh, or Linux-based operating system An installed Ethernet adapter Browser Requirements: Internet Explorer 6 or higher Firefox 3.0 or higher Safari 3.0 or higher Chrome 2.0 or higher Windows[°] Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version. 	
CD Installation Wizard Requirements	Computer with the following: • Windows [®] 7/ Vista [®] / XP with Service Pack 3 • An installed Ethernet adapter • CD-ROM drive	

Introduction

TOTAL PERFORMANCE

Combines award winning router features and IEEE 802.11n/g wireless technology to provide the best wireless performance.

TOTAL SECURITY

The most complete set of security features including Active Firewall and WPA/WPA2 to protect your network against outside intruders.

TOTAL COVERAGE

Provides greater wireless signal rates even at farther distances for best-in-class Whole Home Coverage.

ULTIMATE PERFORMANCE

The D-Link Wireless N PowerLine Router (DHP-1320) is a 802.11n compliant device that delivers real world performance of up to 14x faster than an 802.11g wireless connection (also faster than a 100Mbps wired Ethernet connection). Create a secure wireless network to share photos, files, music, video, printers, and network storage throughout your home. Connect the DHP-1320 router to a cable or DSL modem and share your high-speed Internet access with everyone on the network. In addition, this Router includes a Quality of Service (QoS) engine that keeps digital phone calls (VoIP) and online gaming smooth and responsive, providing a better Internet experience.

TOTAL NETWORK SECURITY

The Wireless N PowerLine Router supports all of the latest wireless security features to prevent unauthorized access, be it from over the wireless network or from the Internet. Support for WPA/WPA2 standards ensure that you'll be able to use the best possible encryption method, regardless of your client devices. In addition, this router utilizes dual active firewalls (SPI and NAT) to prevent potential attacks from across the Internet.

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

Features

- Faster Wireless Networking The DHP-1320 provides up to 300Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio. The performance of this 802.11n wireless router gives you the freedom of wireless networking at speeds 650% faster than 802.11g.
- Compatible with 802.11g Devices The DHP-1320 is still fully compatible with the IEEE 802.11g standards, so it can connect with existing 802.11g PCI, USB, and Cardbus adapters.
- Advanced Firewall Features The Web-based user interface displays a number of advanced network management features including:
 - Content Filtering Easily applied content filtering based on MAC Address, URL, and/or Domain Name.
 - Filter Scheduling These filters can be scheduled to be active on certain days or for a duration of hours or minutes.
 - Secure Multiple/Concurrent Sessions The DHP-1320 can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DHP-1320 can securely access corporate networks.
- User-friendly Setup Wizard Through its easy-to-use Web-based user interface, the DHP-1320 lets you control what information is accessible to those on the wireless network, whether from the Internet or from your company's server. Configure your router to your specific settings within minutes.

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



1	AP-Router Switch	Two-way switch used to Select AP or Router Mode.		
2	LAN Ports (1-3)	Connect 10/100 Ethernet devices such as computers, switches, and hubs.		
3	Internet Port The auto MDI/MDIX Internet port is the connection for the Ethernet cable to the cable or modem.			
4	Reset Button	Set Button Pressing the Reset button restores the router to its original factory default settings.		
5	USB 1.1/2.0 port for SharePortTM Network and WCN support.			
6	Power Button Use this switch to power on/power off the device.			
7	Power Receptor	Receptor for the supplied power cord.		

Hardware Overview WPS Button



1	WPS Button	Press the WPS button for one second to initiate the WPS process. The button will flash blue while a WPS connection is being established. The button will light solid blue for 5 seconds when the device has successfully been added to the network.
2	ENY Button	Push this button to establish a secure PowerLine network with other PowerLine AV devices.



1	Power LED	A solid green light indicates a proper connection to the power supply. This LED will light orange during a factory reset or reboot. A slow blinking orange LED indicates that the Router has crashed during bootup.	
2	Internet LED	A solid green light indicates that the internet connection has successfully completed. This LED blinks green during data transmission. A solid orange light indicates that the physical link is up, but the ISP service is down.	
3	WLAN LED	A solid light indicates that the 2.4GHz wireless segment is ready. This LED blinks during wireless data transmission.	
4	4 PowerLine AV LEDs A solid light indicates that a powerLine connection is established. The LED will blink quickly when data is transmitted from another PowerLine unit.		
5	LAN LEDs (1-3)	A solid light indicates a connection to an Ethernet-enabled computer on ports 1-3. This LED blinks during data transmission.	
6	USB LED	A solid light indicated that the USB device is ready. This LED blinks during data transmission.	

Installation

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

Before you Begin

- Please configure the router with the computer that was last connected directly to your modem.
- You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet).
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoet, Broadjump, or Enternet 300 from your computer or you will not be able to connect to the Internet.
- When running the Setup Wizard from the D-Link CD, make sure the computer you are running the CD from is connected to the Internet and online or the wizard will not work. If you have disconnected any hardware, re-connect your computer back to the modem and make sure you are online.

Wireless Installation Considerations

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

- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- **3**. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
- 5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

Hardware Installation - For Router Mode

Start Here

Windows users can use the **Quick Router Setup Wizard** (from the CD) to configure their router. If you do not want to use the wizard, lost your CD, or are running Mac or Linux, you will need to use the manual setup procedure below.

Quick Router Setup Wizard

For the Wizard to work, the computer must be connected to the Internet and be online. If you have disconnected any hardware, please re-connect your computer back into the modem and make sure you are online.

Insert the CD into your drive on a computer that is online and click **Install Router** to start the Quick Router Setup Wizard. Follow the onscreen instructions to install and configure your router.

Network Diagram



Connect to Cable/DSL/Satellite Modem

If you are connecting the router to a cable/DSL/satellite modem, please follow the steps below:

- 1. Place the router in an open and central location. Do not plug the power adapter into the router.
- 2. Unplug the modem's power adapter.
- 3. Unplug the Ethernet cable (that connects your computer to your modem) from your computer and place it into the Internet port on the router.
- 4. Plug an Ethernet cable into one of the three LAN ports on the router. Plug the other end into the Ethernet port on your computer.
- 5. Plug the power adapter back to the modem. Wait for the modem to boot (about 30 seconds).
- 6. Plug the power cord to the router and connect to an outlet.
- 7. Turn on the DHP-1320 Router by pushing the power button located on the back of this unit. Then, wait about 30 seconds for the router to boot.
- 8. Open a web browser, enter http://192.168.0.1 (or http://dlinkrouter) and then press **Enter.** When the login window appears, set the user name to **Admin** and leave the password box blank. Click **Log In** to continue the setup and use the wizard. Please refer to the page **22** for detailed installation information and advanced features.

Connect to Another Router

If you are connecting the D-Link router to another router to use as a wireless access point and/or switch, you will have to do the following before connecting the router to your network:

- Disable UPnP[™]
- Disable DHCP
- Change the LAN IP address to an available address on your network. The LAN ports on the router cannot accept a DHCP address from your other router.

To connect to another router, please follow the steps below:

- Plug the power into the router and use the power switch to power up the router. Connect one of your computers to the router (LAN port) using an Ethernet cable. Make sure your IP address on the computer is 192.168.0.xxx (where xxx is between 2 and 254). Please see the Networking Basics section for more information. If you need to change the settings, write down your existing settings before making any changes. In most cases, your computer should be set to receive an IP address automatically in which case you will not have to do anything to your computer.
- 2. Open a web browser and enter http://192.168.0.1 and press Enter. When the login window appears, set the user name to Admin and leave the password box empty. Click Log In to continue.
- 3. Click on Advanced and then click Advanced Network. Uncheck the Enable UPnP checkbox. Click Save Settings to continue.
- 4. Click Setup and then click Network Settings. Uncheck the Enable DHCP Server checkbox. Click Save Settings to continue.
- 5. Under Router Settings, enter an available IP address and the subnet mask of your network. Click **Save Settings** to save your settings. Use this new IP address to access the configuration utility of the router in the future. Close the browser and change your computer's IP settings back to the original values as in Step 1.

- 6. Disconnect the Ethernet cable from the router and reconnect your computer to your network.
- 7. Connect an Ethernet cable in one of the LAN ports of the router and connect it to your other router. Do not plug anything into the Internet (WAN) port of the D-Link router.
- 8. You may now use the other 2 LAN ports to connect other Ethernet devices and computers. To configure your wireless network, open a web browser and enter the IP address you assigned to the router. Refer to the **Configuration** and **Wireless Security** sections for more information on setting up your wireless network.

Hardware Installation - For Access Point Mode



Step 1

Move the switch on the back of the DHP-1320 to "AP". Connect the supplied power cord into the power receptor located on the back of the DHP-1320 and plug into a power outlet as illustrated in **Room 3**.

Note: Power source is confirmed when the green LED Power Indicator on the PowerLine devices is illuminated.

Step 2

Turn on the DHP-1320 by pushing the power button located on the back of this unit. Connect one end of the included Ethernet cable to the Ethernet port on the DHP-1320 and attach the other end of the Ethernet cable to the PC as illustrated in **Room 3**.

Note: Connection to an Ethernet-enabled device is confirmed when the green LED Ethernet indicator on the PowerLine device is illuminated.

Step 3

Open a web browser, enter http://192.168.0.1 and press **Enter.** When the login window appears, set the user name to **Admin** and leave the password box blank. Click **Log In** to continue the setup. Please refer to the user to page **108** for more detailed installation information and advanced features.

Note: To secure the PowerLine Network from unauthorize users, please refer to the **PowerLine Network Security** section.

PowerLine Installation Considerations

Plan the location of your PowerLine devices:

- 1. Connect the PowerLine devices to electrial outlets that are not controlled by a wall switch in order to avoid accidentally turning off the power to the device.
- 2. Do not connect the Wireless N PowerLine Router to an extension cord, surge protector, or power strip. This might prevent the device from working correctly or it may reduce the network performance.
- 3. Avoid using the Wireless N PowerLine Router in an electrical outlet that is located near an appliance that uses a lot of power, such as a washer, dryer or refrigerator. This may prevent the adapter from working correctly, or may negatively impact the network perfomance.
- 4. Verify that your PowerLine devices are electrically rated to operate with the power available in your location.
- 5. To help prevent against electrical shock, be sure to plug the power cables into properly grounded electrical outlets.

PowerLine Security

It is strongly recommended to encrypt your PowerLine network. By encrypting the data that is sent via your PowerLine adapters, you will prevent nearby hackers with a Powerline adapter to connect to your network and steal your information.

To encrypt your PowerLine network, follow the steps below:

PowerLine Network-Quick Setup Encryption Button Usage

The ENY Button is used to add a PowerLine AV device to a PowerLine network. You can allow the DHP-1320 to join a network by pressing the ENY Button to toggle it to the Broadcast state or Join state.

The ENY Button has 3 different trigger states:

Broadcast state- Enables the DHP-1320 to provide information for another PowerLine AV device to join its PowerLine network (works even if it is the only device existing within the network group). The first PowerLine device will use this state when the ENY Button is pressed.

Join State - This allows an ungrouped PowerLine AV device to join an existing PowerLine network. PowerLine devices added after the first device will be in the Join State when the ENY Button is pressed.

Ungroup State - Hold down the ENY Button for more than 10 seconds to detach the device from its network group.

Configuring a PowerLine Network Connecting two PowerLine AV devices for the first time

To initially connect the DHP-1320 AV to another PowerLine AV device and create a network:

- 1. Plug the DHP-1320 into a power outlet. Press the ENY button for 1 to 3 seconds. The PowerLine AV LED m should start to blink.
- 2. Plug the other PowerLine device (e.g. the DHP-W306AV) into a power outlet. Press the ENY button on this PowerLine device for 1 to 3 seconds.
- 3. Wait for both devices to reboot (all LEDs will turn off and on). When the PowerLine AV LEDs on both devices are steadily lit, the two devices will be networked together.



Connecting a PowerLine AV device to an existing PowerLine network

To add a DHP-1320 if you already have an existing network with 2 more PowerLine devices:

- 1. Press the ENY button on the DHP-1320 for more than 10 seconds to make sure it is not connected to any other PowerLine network.
- 2. Press the ENY button of any device already in your PowerLine network (e.g. the DHP-306AV) for 1 to 3 seconds. The ENY LED should start to blink.
- 3. Press the ENY button on the DHP-1320 for 1 to 3 seconds. The PowerLine AV LED n should start to blink.
- 4. Wait for the DHP-1320 to reboot (all LEDs will tun off and on). When the PowerLine AV LED non all devices are steadily lit, the DHP-1320 will be connected to the existing network.



Getting Started

The DHP-1320 includes a Quick Router Setup Wizard CD. Follow the simple steps below to run the Setup Wizard to guide you quickly through the installation process.

Insert the **Quick Router Setup Wizard CD** in the CD-ROM drive. The step-by-step instructions that follow are shown in Windows[®] XP. The steps and screens are similar for the other Windows operating systems.

If the CD Autorun function does not automatically start on your computer, go to **Start** > **Run**. In the run box type"D:\autorun.exe" (where **D**: represents the drive letter of your CD-ROM drive).

When the autorun screen appears, click Install.



Note: It is recommended to write down the SSID and Security Key, followed by the login password on the provided CD holder.

Configuration (Router Mode)

This section will show you how to configure your new D-Link wireless router using the web-based configuration utility.

Web-based Configuration Utility

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

Select Admin in the User Name field. Leave the password blank by default.

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

LOGIN	
Log in to the router	
	User Name : Admin - Password : Log In

D-LINK SYSTEMS, INC. | WIRELESS ROUTER | HOME

🖉 http://dlinkrouter

Setup Internet

This section allows you to configure your Router's Internet settings.

Internet The Internet Connection Setup Wizard provides a quick Connection method for configuring your Internet settings. To start Setup Wizard: the Internet Connection Setup Wizard, click the Internet Connection Setup Wizard button. Refer to "Internet Connection Setup Wizard" on page 22 for more information on how to use the Internet Connection Setup Wizard.

Manual InternetClick the Manual Internet Connection Setup button if
you want to enter your Internet settings without running
Option:Option:the Internet Connection Setup Wizard. Refer to "Manual
Internet Connection Setup" on page 28 for more information
on how to configure your Internet settings manually.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET	INTERNET CONNEC	TION			Helpful Hints
WIRELESS SETTINGS					If you are new to
NETWORK SETTINGS	There are two ways to Connection Setup Wizz	set up your Internet conn	ection: you can use the W	eb-based Internet	networking and have never configured a router before, click on
USB SETTINGS	connection becap with		ingure are connection.		
PLC SETTINGS					Setup Wizard and the
	INTERNET CONNEC	TION WIZARD			router will guide you
	If you would like to util D-Link Corporation Rout	ize our easy to use Web-ba ter to the Internet, click or	sed Wizards to assist you ir h the button below.	n connecting your new	steps to get your network up and running.
	Internet Connection Setup Wizard Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.			If you consider yourself an advanced user and have configured a router before, click Manual Internet Connection Setup to input all the settings	
	MANUAL INTERNET CONNECTION OPTIONS				manually.
	If you would like to cor manually, then click on	figure the Internet setting the button below. Manual Internet C	is of your new D-Link Corpo	oration Router	More

Internet Connection Setup Wizard

Click the **Internet Connection Setup Wizard** button to start the Internet Connection Setup Wizard.

INTERNET CONNECTION WIZARD

If you would like to utilize our easy to use Web-based Wizards to assist you in connecting your new D-Link Corporation Router to the Internet, click on the button below.

Internet Connection Setup Wizard

Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

Section 3 - Configuration

The following window appears, summarizing the steps required to complete the Internet Connection Setup Wizard:

Click Next to continue.



Create a new password and then click **Next** to continue.

STEP 1: SET YOUR PASSWORD		
By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below:		
Password :		
Verify Password :		
Prev Next Cancel Connect		

Select your time zone from the drop-down menu and then click **Next** to continue.

STEP 2: SELECT YOUR TIME ZONE			
Select the appropriate time zone for your location. This information is required to configure the time- based options for the router.			
	(GMT-08:00) Pacific Time (US & Canada); Tijuana 🗸		
	Prev Next Cancel Connect		

Select the type of Internet connection you use and then click **Next** to continue.

STEP 3: CONFIGURE YOUR INTERNET CONNECTION

Your Internet Connection could not be detected, please select your Internet Service Provider (ISP) from the list below. If your ISP is not listed; select the "Not Listed or Don't Know" option to manually configure your connection.

Not Listed or Don't Know 👻

If your Internet Service Provider was not listed or you don't know who it is, please select the Internet connection type below:

OHCP Connection (Dynamic IP Address)

Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.

Username / Password Connection (PPPoE)

Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this connection type of connection.

Username / Password Connection (PPTP)

Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this connection type of connection.

Username / Password Connection (L2TP)

Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this connection type of connection.

Static IP Address Connection

Choose this option if your INTERNET Provider provided you with IP Address information that has to be manually configured.



If you selected **DHCP Connection (Dynamic IP Address)**, you may need to enter the MAC address of the computer that was last connected directly to your modem. If you are currently using that computer, click **Clone Your PC's MAC Address** and then click **Next** to continue.

The Host Name is optional but may be required by some ISPs. The default host name is the device name of the router and may be changed.

DHCP CONNECTION (DYNAMIC IP ADDRESS)			
To set up this connection, please make sure that you are connected to the D-Link Router with the PC that was originally connected to your broadband connection. If you are, then click the Clone MAC button to copy your computer's MAC Address to the D-Link Router.			
MAC Address :	ress: 00:11:22:07:27:18 (Optional)		
	Clone Your PC's MAC Address		
Host Name :	DHP-1320		
Note: You may also need to provide a Host Name. If you do not have or know this information, please contact your ISP			
	Prev Next Cancel Connect		

D-Link DHP-1320 User Manual

If your ISP requires you to enter a PPPoE service name, enter the service name in the **Service Name** field.

Select **Static** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses.

Click Next to continue.

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

If you selected **PPTP**, enter your PPTP username and password.

Select **Static** if your ISP assigned you the IP address, subnet mask, gateway, and PPTP server addresses.

Click **Next** to continue.

SET USERNAME AND PASSWORD CONNECTION (PPPOE)			
To set up this connection you will need to have a Username and Password from your Internet Service Provider. If you do not have this information, please contact your ISP.			
Address Mode : Oppmanic IP	Static IP		
IP Address : 0.0.0.0]		
User Name :]		
Password :]		
Verify Password : •••••••]		
Service Name :	(Optional)		
Note: You may also need to provide a Service Name. If y your ISP.	rou do not have or know this information, please contact		
Prev Next	Cancel		

SET USERNAME AND PASSWORD CONNECTION (PPTP)			
To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need PPTP IP adress. If you do not have this information, please contact your ISP.			
Address Mode : Oynamic IP Static IP			
PPTP IP Address :	0.0.0.0		
PPTP Subnet Mask :	0.0.0.0		
PPTP Gateway IP Address :	0.0.0.0		
PPTP Server IP Address (may be same as gateway) :			
User Name :			
Password :			
Verify Password :			
	Prev Next Cancel Connect		

If you selected **PPPoE**, enter your PPPoE username and password.

If you selected L2TP, enter your L2TP username and password.

Select **Static** if your ISP assigned you the IP address, subnet mask, gateway, and L2TP server addresses.

Click Next to continue.

SET USERNAME AND PASSWORD CONNECTION (L2TP)		
To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need L2TP IP adress. If you do not have this information, please contact your ISP.		
Address Mode : Dynamic IP S	tatic IP	
L2TP IP Address : 0.0.0.0		
L2TP Subnet Mask : 0.0.0.0		
L2TP Gateway IP		
L2TP Server IP Address (may be same as gateway) :		
User Name :		
Password :		
Verify Password :		
Prev Next	Cancel	

If you selected **Static**, enter your network settings supplied by your Internet provider.

Click Next to continue.

SET STATIC IP ADDRESS CONNECTION				
To set up this connection you will need to have a complete list of IP information provided by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.				
IP Address :	0.0.0			
Subnet Mask :	0.0.0.0			
Gateway Address :	0.0.0.0			
Primary DNS Address :	0.0.0			
Secondary DNS Address :	0.0.0.0			
	Prev Next Cancel Connect			

Click **Connect** to save your settings.

SETUP COMPLETE!

The Internet Connection Setup Wizard has completed. Click the Connect button to save your settings.

Prev	/ Next	Cancel	Connect

The following window appears to indicate that the settings are being saved. When the Router has finished saving all the changes, the **Setup**> **Internet** window will open.

Close your browser window and reopen it to test your Internet connection. It may take a few tries to initially connect to the Internet.

SAVING			
The setting of the set of the set of the set			
The settings are being saved and are taking effect.			
Please wait			

Manual Internet Connection Setup

Internet Use the My Internet Connection is drop-down menu to Connection select the mode that the router should use to connect to Type: the Internet.

Advanced Advanced Domain Name System (DNS) Services enhances DNS Service: your Internet performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typo mistakes automatically, taking you where you intended to go and saving you valuable time.

Disclaimer: D-Link makes no warranty as to the availability, reliability, fuctionality and operation of the Advanced DNS service or its features.

WAN				
Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP. If you are unsure of your connection method, please contact your Internet Service Provider.				
Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.				
Save Settings Don	Save Settings			
INTERNET CONNECTION TYPE				
Choose the mode to be used by the router to connect to the Internet.				
My Internet Conne	ction is : Dynamic IP (DHCP)			
ADVANCED DNS SERVICE				
Advanced DNS is a free security option that provides Anti-Phishing to protect your Internet connection from fraud and navigation improvements such as auto-correction of common URL typos.				
Enable Advanced DN	Service : 🔲			

Manual Internet Connection Setup Static IP

Select **Static IP** from the drop-down menu if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format.

IP Address:	Enter the IP address assigned by your ISP.	INTERNET CONNECTION TYPE		
Subnet Mask	Enter the Subpet Mack assigned by your ISP	Choose the mode to be used by	the router to connect to the Internet.	
Subiree mask.	Enter the Subnet Mask assigned by your isi.	My Internet Connection is :	Static IP 👻	
Default Gateway:	Enter the Gateway assigned by your ISP.			
	, , , , , , , , , , , , , , , , , , , ,	ADVANCED DNS SERVICE		
DNS Servers:	The DNS server information will be supplied by your ISP (Internet Service Provider).	Advanced DNS is a free security option that provides Anti-Phishing to protect your Internet connection from fraud and navigation improvements such as auto-correction of common URL typos.		
MTU:	 Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU. The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card. 	Enable Advanced DNS Service :		
		STATIC IP ADDRESS INTERNET CONNECTION TYPE : Enter the static address information provided by your Internet Service Provider		
		(ISP).		
MAC Address:		IP Address :	0.0.0.0	
		Subnet Mask :	0.0.0.0	
		Default Gateway :	0.0.0.0	
		Primary DNS Server :	0.0.0.0	
		Secondary DNS Server :	0.0.0.0	
		MTU :	1500 (bytes)MTU default = 1500	
		MAC Address :	00:11:22:07:27:18	
Click the Save Settings button to save any changes made.			Clone Your PC's MAC Address	

Manual Internet Connection Setup Dynamic IP (DHCP)

Select **Dynamic IP (DHCP)** from the drop-down menu to obtain IP Address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for cable modem services such as Comcast and Cox.

Host Name:	The Host Name is optional but may be required by some ISPs. Leave blank if you are not sure.	INTERNET CONNECTION TYPE		
		Choose the mode to be used by	y the router to connec	ct to the Internet.
Primary/	Enter the Primary and Secondary DNS server IP addresses	My Internet Connection is :	Dynamic IP (DHCP)	•
Secondary DNS Server:	 Server: automatically from your ISP. These addresses are usually obtained server: automatically from your ISP. Enter the value 0.0.0.0 if you did not specifically receive these from your ISP. MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU. 	ADVANCED DNS SERVICE		
		Advanced DNS is a free security Internet connection from fraud	option that provides and navigation impro	Anti-Phishing to protect your ovements such as
MTU:		Enable Advanced DNS Service :		
		DYNAMIC IP (DHCP) INTERN	IET CONNECTION TYP	PE :
MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Bouter. It is not		Use this Internet connection ty provide you with IP Address inf	pe if your Internet Se formation and/or a us	rvice Provider (ISP) didn't ername and password.
	recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card.	Host Name :	DHP-1320	
		Use Unicasting :	Compatibility for so	ome DHCP Servers)
		Primary DNS Address :	0.0.0.0	
		Secondary DNS Address :	0.0.0.0	
		MTU :	1500 (bytes)M	ITU default = 1500
		MAC Address :	00:11:22:07:27:18	
Click the Save Settings button to save any changes made.			Clone Your PC's MAC Ad	dress

Manual Internet Connection Setup PPPoE (Username/Password)

Select **PPPoE** (Username/Password) from the drop-down menu if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

Address Mode:	Select Static IP if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most	PPPOE :		
	cases, select Dynamic.	Enter the information provided l	by your Internet Service Provider (ISP).	
IP Address:	Enter the IP address (Static PPPoE only).	Address Mode	Oynamic IP Static IP	
User Name:	Enter your PPPoE user name.	IP Address :	0.0.0	
	Enter your PPPoE password and then retype the password in the next box.	Password :	••••••	
Password:		Verify Password :	••••••	
		Service Name :	(optional)	
Service Name:	 Enter the ISP Service Name (optional). Use the radio buttons to specify the reconnect mode. The user can specify a custom schedule or specify the On Demand, or Manual option. 	Reconnect Mode :	Always on On demand Manual	
		Maximum Idle Time :	5 (minutes, 0=infinite)	
Reconnect		Primary DNS Address :	0.0.0.0 (optional)	
Mode:		Secondary DNS Address :	0.0.0.0 (optional)	
		MTU :	1492 (bytes) MTU default = 1492	
		MAC Address .	00:11:22:07:27:18	
Maximum Idle Time:	Idle Enter a maximum idle time during which the Internet me: connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.			
DNS Servers:	Enter the Primary and Secondary DNS Server Addresses (Static PPPoE only).			
MTU:	J: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP 1492 is the defau			

MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

Click the **Save Settings** button to save any changes made.

Manual Internet Connection Setup PPTP

Select **PPTP** (**Point-to-Point Tunneling Protocol**) from the drop-down menu if your ISP uses a PPTP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

Address Mode:	Select Static IP if your ISP assigned you the IP address, subnet	INTERNET CONNECTION TYPE		
	mask, gateway, and DNS server addresses. In most cases, select Dynamic IP .	Choose the mode to be used by the router to connect to the Internet.		
	·	My Internet Connection is :	PPTP (Username / Password) 👻	
PPTP IP Address:	Enter the IP address (Static PPTP only).	ADVANCED DNS SERVICE		
PPTP Subnet Mask:	Enter the Primary and Secondary DNS Server Addresses (Static PPTP only).	Advanced DNS is a free security option that provides Anti-Phishing to protect your Internet connection from fraud and navigation improvements such as auto-correction of common URL typos.		
		Enable Advanced DNS Service :	:	
PPTP Gateway IP	Enter the Gateway IP Address provided by your ISP.			
Address:		PPTP :		
	Enter the Server IP provided by your ISP (optional).	Enter the information provided	by your Internet Service Provider (ISP).	
Addresse				
Address:		Address Mode	Oynamic IP Static IP	
		PPTP IP Address :	0.0.0	
Username:	Enter your PPTP username.	PPTP Subnet Mask :	0.0.0.0	
		PPTP Gateway IP Address :	0.0.0.0	
Password:	Enter your PPTP password and then retype the password in the	PPTP Server IP Address :		
	next box.	Username :		
		Password :	•••••	
Reconnect	Use the radio buttons to specify the reconnect mode. The user can	Verify Password :		
Mode	specify a custom schedule or specify the On Demand or Manual	Reconnect Mode :	Always on On demand Manual	
Mode.	option	Maximum Idle Time :	5 (minutes, 0=infinite)	
	option.	Primary DNS Address :	0.0.0.0	
MA	Enterne manufacture idle times during such ich the lateraset composition	Secondary DNS Address :	1400 (http:) MTU default = 1400	
waximum Idle	Enter a maximum idle time during which the internet connection	MAC Address :	1100 (bytes) MTO default = 1400	
Time:	is maintained during inactivity. Io disable this feature, enable		Clone Your PC's MAC Address	
	Auto-reconnect.			

DNS Servers: The DNS server information will be supplied by your ISP (Internet Service Provider).

- MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your specific ISP. 1454 is the default MTU.
- MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone Your PC's MAC Address** button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

Click the **Save Settings** button to save any changes made.

Manual Internet Connection Setup L2TP

Choose L2TP (Layer 2 Tunneling Protocol) if your ISP uses a L2TP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

L2TP:

- Address Mode: Select Static if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic.
- L2TP IP Address: Enter the L2TP IP address supplied by your ISP (Static only).
 - L2TP Subnet Enter the Subnet Mask supplied by your ISP (Static only). Mask:
- L2TP Gateway IP Enter the Gateway IP Address provided by your ISP. Address:
 - L2TP Server IP Enter the Server IP provided by your ISP (optional). Address:
 - Username: Enter your L2TP username.
 - **Password:** Enter your L2TP password and then retype the password in the next box.
- Enter the information provided by your Internet Service Provider (ISP). Address Mode
 Ovnamic IP

 Static IP 0.0.0.0 L2TP IP Address : L2TP Subnet Mask : 0.0.0.0 L2TP Gateway IP Address : 0.0.0.0 L2TP Server IP Address : Username : Password : ••••••• Verify Password : •••••••• Reconnect Mode : O Always On demand O Manual Maximum Idle Time : 5 (minutes, 0=infinite) Primary DNS Address : 0.0.0.0 Secondary DNS Address : 0.0.0.0 MTU: 1400 (bytes)MTU default = 1400 MAC Address : 00:11:22:07:27:18 Clone Your PC's MAC Address
- **Reconnect** Use the radio buttons to specify the reconnect mode. The user can specify a custom schedule or specify the **On Demand**, or **Manual Mode:** option.
- Maximum Idle Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Time: Auto-reconnect.
- Primary DNS Enter the Primary DNS server IP address assigned by your ISP. These address is usually obtained automatically from your ISP. Enter Server: the value 0.0.0.0 if you did not specifically receive these from your ISP.

- MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your specific ISP. 1454 is the default MTU.
- MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone Your PC's MAC Address** button to replace the Internet port's MAC address with the MAC address of your Ethernet card.
Wireless Settings

If you want to configure the wireless settings on your router using the wizard, click **Wireless Connection Setup Wizard** and refer to "Wireless Connection Setup Wizard" on page 103.

Click **Add Wireless Device with WPS** if you want to add a wireless device using Wi-Fi Protected Setup (WPS) and refer to "Add Wireless Device with WPS Wizard" on page 106.

If you want to manually configure the wireless settings on your router click **Manual Wireless Connection Setup** and refer to the next page.

DHP-1320 RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET	WIRELESS SETTING	GS			Helpful Hints
WIRELESS SETTINGS NETWORK SETTINGS USB SETTINGS PLC SETTINGS	The following Web-bas wireless device connect Before launching these Installation Guide includ	network setup and outlined in the Quick	If you are new to wireless networking and have never configured a wireless router before, click on Wireless Connection Setup Wizard and the		
	WIRELESS NETWO This wizard is designed by-step instructions on Note: Some changes m your wireless client ada	router will guide you through a few simple steps to get your wireless network up and running. If you consider yourself an advanced user and have configured a wireless router before, click Manual Wireless Connection Setup to nout all the settings			
	ADD WIRELESS DE This wizard is designed you through step-by-st button below to begin	VICE WITH WPS (WI- to assist you in connecting p instructions on how to Add Wireless De	FI PROTECTED SETUP your wireless device to you get your wireless device co vice with WPS) WIZARD ur router. It will guide nnected. Click the	manually. More
	MANUAL WIRELES: If your wireless network wireless network will de wireless settings of you Network Setup button	S NETWORK SETUP k is already set up with Wi- estroy the existing wireless r new D-Link Corporation R below. Manual Wireless C	Fi Protected Setup, manua network. If you would like outer manually, then click o onnection Setup	l confguration of the to configure the on the Manual Wireless	

Manual Wireless Settings 802.11n/b/g (2.4GHz)

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions.

- Schedule: Select the time frame that you would like your wireless network enabled. The schedule may be set to Always. Any schedule you create will be available in the drop-down menu. Click New Schedule to create a new schedule.
- Wireless Network The Service Set Identifier (SSID) is the name of your wireless Name: network. Create a name using up to 32 characters. The SSID is case-sensitive.
 - 802.11 Mode: Select one of the following:

802.11g Only - Select if all of your wireless clients are 802.11g.

802.11n Only - Select only if all of your wireless clients are 802.11n.

802.11b Only - Select if all of your wireless clients are 802.11b.

Mixed 802.11n and 802.11g - Select if you are using a mix

of 802.11n and 802.11g wireless clients.

Mixed 802.11g and 802.11b - Select if you are using a mix of 802.11g and 802.11b wireless clients.

Mixed 802.11n, 802.11g and 802.11b - Select 802.11n, 802.11g and 802.11b

Enable Auto The **Auto Channel Selection** setting can be selected to allow the DHP-1320 to choose the channel with the least amount of **Channel Selection:** interference.

Wireless Channel: Indicates the channel setting for the DHP-1320. By default the channel is set to 1. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Selection, this option will be greyed out.



Channel Width: Select the Channel Width:

Auto 20/40 - Select if you are using both 802.11n and non-802.11n wireless devices. 20MHz - Select if you are not using any 802.11n wireless clients. This is the default setting.

Wireless Security Refer to "Wireless Security" on page 136 for more information regarding wireless security. Mode:

Network Settings

This section will allow you to change the local network settings of the router and to configure the DHCP settings.

Router Use this section to configure the Router's local network **Settings:** settings.

DHCP Server Use this section to configure the DHP-1320's built-in DHCP **Settings:** server settings.

Add DHCP Use this section to create a new DHCP reservation or **Reservation:** manage existing DHCP reservations.

DHCP Displays information about the devices that have a DHCP
 Reservations reservation from the DHP-1320. The information includes
 List: the Host Name, IP Address, MAC Address, and Expiration Time.

Number of Displays information about the devices that have a Dynamic dynamic DHCP lease from the DHP-1320. The information
 DHCP Clients: includes the Host Name, IP Address, MAC Address, and Lease Expiration Time.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET WIRLESS SETTINGS NETWORK SETTINGS USS SETTINGS PLC SETTINGS	NETWORK SETTING: Use this section to conf built-in DHCP Server to a is configured here is the If you change the IP Act the network again. Save Settings	S ligure the internal network assign IP addresses to the IP Address that you use t idress here, you may need Don't Save Settings	settings of your router an computers on your netwo o access the Web-based r to adjust your PC's netwo	d also to configure the rk. The IP Address that management interface. rk settings to access	Helpful Hints If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, uncheck. Enable DHCP Server to deable this feature. If you have devices on your network that
	ROUTER SETTINGS Use this section to config configured here is the IP you change the IP Addre network again. Router IP / Subm Devic Local Domai	gure the internal network : Address that you use to a sess here, you may need to Address : 192.168.0.1 et Mask : 255.255.255.0 ce Name : dinkrouter in Name :	settings of your router. Th cccess the Web-based mar adjust your PC's network	e IP Address that is nagement interface. If settings to access the	should always have fixed IP adresses, add a DHCP Reservation for each such device. Hore
	Enable DN DHCP SERVER SETT Use this section to config Enable DHCI DHCP IP Address DHCP Lea Always br NetBIOS announ Learn NetBIOS fro NetBIOS no Primary WINS IP / Secondary WINS IP /	INGS INGS INGS INGS INGS INGS INGS INGS	ter to assign IP addresses t to 192.168.0.199 nutes) ity for some DHCP Clients) (optional) nly (use when no WINS sint (no broadcast) (Broadcast then Point-to it-to-Point then Broadcast	to the computers on ervers configured) -Point))	
	ADD DHCP RESERVA Comput. IP / MAC / DHCP RESERVATION Enable Host Nat NUMBER OF DYNAM! Hardware Address As 00:17:42:c7:72:19 1	ATION Enable : Address : Address : Copy You Save Clear NS LIST : me MAC Add IC DHCP CLIENTS : 1 ssigned IP Hostname 92.168.0.100 Lifebook	<< Computer Nam r PC's MAC Address ress IP Add Expires Fri Sep 3 17:00:15 201	dress	

Network Settings Router Settings

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

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

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

Device Name: Enter a Host Name to identify the DHP-1320.

Local Domain: Enter the Domain name (Optional).

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

Click the **Save Settings** button to save any changes made.

ROUTER SETTINGS

Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

Router IP Address :	192.168.0.1
Subnet Mask :	255.255.255.0
Device Name :	dlinkrouter
Local Domain Name :	
Enable DNS Relay :	

Network Settings DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DHP-1320 has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to "Obtain an IP Address Automatically." When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DHP-1320. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

Enable DHCP	Check this box to enable the DHCP server on your router.	DHCP SERVER SETTINGS
Server:	Uncheck to disable this function.	Use this section to configure the built in DHCD Server to assign ID addresses to the computers on
DHCP IP Address	Enter the starting and ending IP addresses for the DHCP server's	your network.
Range:	IP assignment.	Enable DHCP Server : 🔽
-		DHCP IP Address Range : 192.168.0.100 to 192.168.0.199
	Note: If you statically (manually) assian IP addresses to your	DHCP Lease Time : 1440 (minutes)
	computers or devices, make sure the IP addresses are outside of	Always broadcast : 📝 (compatibility for some DHCP Clients)
	this range or you may have an IP conflict.	NetBIOS announcement :
		Learn NetBIOS from WAN :
DHCP Lease Time	The length of time for the IP address lease Enter the Lease time	NetBIOS Scope : (optional)
Brief Lease fille.	in minutes	NetBIOS node type :
	in minutes.	Point-to-Point (no broadcast)
		Mixed-mode (Broadcast then Point-to-Point)
Learn NetBIOS	If NetBIOS advertisement is switched on, switching this setting	Hybrid (Point-to-Point then Broadcast)
WAN:	on causes WINS information to be learned from the WAN side,	Primary WINS IP Address : 0.0.0.0
	if available. Turn this setting off to configure manually.	Secondary WINS IP Address : 0.0.0.0

NetBIOS scope: This is an advance setting and is normally left blank. This allows the configuration of NetBIOS domain name under which network hosts operate. This setting has no effect if the "Learn NetBIOS information form WAN is activated.

When you have finished configuring the new DHCP Server Settings, click the Save Settings button at the top or bottom of the window.

Network Settings DHCP Reservation

If you want a computer or device to always have the same IP address assigned, you can create a DHCP reservation. The router will assign the IP address only to that computer or device.

Note: This IP address must be within the DHCP IP Address Range.

Enable: Check this box to enable the reservation.

- Computer Enter the computer name. Alternatively, select a Name: computer that currently has a DHCP lease from the drop down menu and click << to automatically populate the Computer Name, IP Address, and MAC Address fields.
- **IP Address:** Enter the IP address you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range.

MAC Address: Enter the MAC address of the computer or device.

Copy Your PC's If you want to assign an IP address to the computer you **MAC Address:** are currently on, click this button to populate the fields.

Save: Click Save to save your entry. You must click Save Settings at the top to activate your reservations.

Dynamic DHCP In this section you can see what LAN devices are currently leasing IP addresses. **Clients:**

When you have finished configuring the new DHCP Reservation, click the **Save Settings** button at the top or bottom of the window to activate your reservations.

ADD DHCP RESERVATION							
Enable :							
Computer Name :	< Com	puter Name 🔻					
IP Address :							
MAC Address :							
	Copy Your PC's MAC Address						
	Save Clear						
DHCP RESERVATIONS LIST :							
Enable Host Name	MAC Address	IP Address					
NUMBER OF DYNAMIC DHCP CLIENTS : 0							
Hardware Address	Assigned IP Hostnar	ne Expires					

USB Settings

In this section you may configure your USB port. You can select several configurations to choose from such as Share Port and WCN Configuration.

INTERNET USB SETTINGS Helpful Hints WIRELESS SETTINGS Use this section to configure your USB port. There are several configurations to choose from: Network USB, 3G USB Adapter and WCN Configuration. Device drivers and th D-Link USB Network Utility must be installe on each computer th will use the device. PLC SETTINGS If you have trouble accessing the Internet through the router. Double check the settings you entered on this page and verify with your Internet Service Provider (ISP) if needed. If you have trouble accessing the Internet through the router. Double check the settings you entered on this page and verify USB SETTINGS USB SETTINGS If you have trouble accessing the Internet through the router. Double check the settings you entered on this page and verify Choose the type of USB device to be plugged into the USB port. USB port.	DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
Save Settings Don't Save Settings If you have trouble accessing the Internet through the router. Double check the settings you entered on this page and verif with your Internet Service Provider (ISP) needed. Choose the type of USB device to be plugged into the USB port. Service Provider (ISP) needed.	INTERNET WIRELESS SETTINGS NETWORK SETTINGS USB SETTINGS PLC SETTINGS	USB SETTINGS Use this section to con Network USB, 3G USB If you have trouble acc entered on this page a	Helpful Hints Device drivers and the D-Link USB Network Utility must be installed on each computer tha will use the device.			
My USB type is : SharePort - More		Save Settings USB SETTINGS Choose the type of US My USE	Don't Save Settings B device to be plugged int B type is : SharePort	o the USB port.		If you have trouble accessing the Internet through the router. Double check the settings you entered on this page and verify with your Internet Service Provider (ISP) if needed. More

PLC Settings (Router Mode)

This section will show you how to configure your new D-Link PowerLine AV using the web-based configuration utility.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET WIRELESS SETTINGS NETWORK SETTINGS USB SETTINGS PLC SETTINGS	POWER LINE SETT	figure the power line settin Don't Save Settings	gs and Qos Settings for yo	ur D-Link device.	Helpful Hints
	Network Name				
	Add Member Device Name Manual Add Memb	MAC Address	Link Rate(M	bps)	
	Device Name Password			Add	
	Member List Device Name	MAC Address L	ink Rate(Mbps) Sta	atus	
	Qos Settings Name	мас	Address P	riority	
			Hig Hig Hig	yhest ▼ Clear yhest ▼ Clear yhest ▼ Clear	
			Hig Hig Hig Hig	yhest ▼ Clear yhest ▼ Clear yhest ▼ Clear yhest ▼ Clear	

Network You can set the name of your network and to make it either public or private. Make sure the Network Name of all of the devices within your PowerLine network is the same.

Public Select this option if you would like to make your powerline

Network network public with the default Network Name of Name: "HomePlugAV". Since this is a commonly used Network Name, it is less secure than a private Network Name.

Private Select this option if you wish to make your powerline

Network network more secure by using a private Network Name.Name: Type the name of your private PowerLine network in the field.

Scan: Scan for new PowerLine devices.

Add This section lets you add new PowerLine AV devices to

- **Memeber:** your PowerLine network. To add a new device, give it a Device Name and enter its Password, then click Add. When you add a device it is given the current Network Name.
- **Device Name:** Type a name you wish to use to identify a specific PowerLine AV device. For example, "Jack's room".
 - **Password:** The Password is used to verify that you are authorized to perform changes on a device. You can find the Password printed on the back of your device.

	Public, Network Name is Hor	nePlugAV	
	Private, Network Name is		
d Member			
Device Name	MAC Address	Link Rate(Mbps)	
	Scan		
nual Add Memb	er		
Device Name			
Deserved			Add

Member List: This section provides information on the PowerLine AV devices in your PowerLine network, or any devices that were previously connected but it are currently disconnected.

Link Rate: Displays the device's current data rate in Mbps.

- Status: This field shows the status of the device. If the field displays the word Connect, then the device is connected to your PowerLine network. If the field displays the word Disconnect, then the device has been added to the network but it is not ready. Please check its password and make sure the device is powered on.
- **Qos Settings:** You can configure your PowerLine AV devices to give priority to powerline network traffic accordingly. Enter the name, MAC Address, and priority level.
- Mac Address: You can find the MAC address printed on the back of your device.

Member List				
Device Name	MAC Address	Link Rate(Mbps)	Status	
Qos Settings				
Name		MAC Address	Priority	
			Highest 👻	Clear
			Highest 👻	Clear
			Highest 💌	Clear
			Highest 💌	Clear
			Highest 💌	Clear
			Highest 💌	Clear
			Highest 👻	Clear

Advanced Virtual Server

The DHP-1320 can be configured as a virtual server so that remote users accessing Web or FTP services via the public IP address can be automatically redirected to local servers in the LAN (Local Area Network).

The DHP-1320 firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DHP-1320 are invisible to the outside world. If you wish, you can make some of the LAN computers accessible from the Internet by enabling Virtual Server. Depending on the requested service, the DHP-1320 redirects the external service request to the appropriate server within the LAN network.

The DHP-1320 is also capable of port-redirection, meaning that incoming traffic to a particular port may be redirected to a different port on the server computer.

For a list of ports for common applications, please visit http://support.dlink.com/faq.

The Virtual Server window allows you to open a single port. If you would like to open a range of ports, refer to the next page.

DHP-1320 RT

PORT FOR WARDING

APPLICATION RULES

ETWORK FILTER

ACCESS CONTROL

VEBSITE FILTER

INBOUND FILTER

QOS ENGINE

VIRTUAL SERVER

Enable Check the box on the left side to enable the Virtual Checkbox: Server rule.

- Name: Enter a name for the rule or select an application from the drop-down menu. Select an application and click << to populate the fields.
- IP Address: Enter the IP address of the comput network that you want to allow the inc If your computer is receiving an IP add from the router (DHCP), you compute the Computer Name drop-down m computer and click <<.

Public Port/ Enter the port that you want to ope Private Port: Port and Private Port. The public and usually the same. The public port is the the Internet side, and the private port used by the application on the comp local network.

Traffic Type: Select TCP, UDP, Both or other from the down menu.

Schedule

- Drop-Down Use the drop-down menu to schedu be set to Always, Menu: which will allow the particular service ules section.
- Inbound Filter: Select Allow All (most common) or a created Inbound filter. You may create your own inbound filters in the Advanced > Inbound Filter page.

Click the Save Settings button to save any changes made.

ter on your local				≤≤ Application Name ▼	0	TCP 🔻	Always 👻
coming service to			IP Address		Private Port		Inbound Filter
conning service to.			0.0.0.0	Computer Name	U	•	
ress automatically	SETUP		Name	< Application Name	Public Port	Protocol TCP -	Schedule Always 👻
er will be listed in	ADVANCED NETWORK		IP Address		Private Port		Inhound Filter
	IPv6		0.0.0.0	Computer Name •	0	6	Allow All 👻
ienu. Select your	IPV6 ROUTING		Name		Public Port	Protocol	Schedule
				Application Name •	0	тср 👻	Always 👻
			IP Address		Private Port		Inbound Filter
			0.0.0.0	Computer Name •	0	6	Allow All 👻
an next to Public			Name		Public Port	Protocol	Schedule
				Application Name	0	тср 👻	Always 👻
private ports are			IP Address		Private Port		Inbound Filter
,			0.0.0.0	Computer Name	0	6	Allow All 🔻
le port seen nom			Name	And And And	Public Port	Protocol	Schedule
t is the port being				Application Name	0	TOP V	Aiways 👻
······································			IP Address		Private Port	6	Inbound Filter
Suter within your			Name	Comparer Hume	Dublic Dort	Destand	Calcadula
			Name	<		TCP -	Always -
					Private Port		Tobound Filtor
			0.0.0.0	< Computer Name	0	6	Allow All
he Protocol dron-							
ile the time that the	e Virtual Serv	er	Rule will	be enabled.	The sch	edule	may be
o to always bo onab	lad Vou can	cro		own timos in	the Tee	$d_{c} > C$	chodulo
e to always be ellab	ieu. Tou carro	cie	ate your	own unles in		15 / 20	lieuule

SETUP

VIRTUAL SERVER

Save Settings

Nam

services such as FTP or Web Servers.

24 -- VIRTUAL SERVERS LIST

ADVANCED

Don't Save Settings

The Virtual Server option allows you to define a single public port on your router for redirection to

an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online

TOOLS

Port

Public Port

Traffic Type

Protocol

STATUS

Schedule

SUPPORT

Check the Application

for a list of predefined

erver types. If you

ct one of the

pes, click the arr

itton next to the

ou can se

op down menu to f

uter at which vo

ld like to one

elect a schedule fo

vill be enabled. If you o not see the ule you need ir

rreate a new scheduk

sts that can acces

Select a filter that stricts the Interne

en the virtual serv

edefined serve

Helpful Hints...

Port Forwarding

This will allow you to open a single port or a range of ports.

- **Enable Checkbox:** Tick the checkbox on the left side to enable the Port Forwarding rule.
 - **Name:** Enter a name for the rule or select an application from the drop-down menu. Select an application and click << to populate the fields.
 - **IP Address:** Enter the IP address of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), you computer will be listed in the **Computer Name** drop-down menu. Select your computer and click <<.

TCP Port/ Enter the port that you want to open next to TCP **UDP Port:** Port and UDP Port.

- Schedule: Use the drop-down menu to schedule the time that the Port Forwarding rule will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the Tools > Schedules section.
- Inbound Filter: Select Allow All (most common) or a created Inbound filter. You may create your own inbound filters in the Advanced > Inbound Filter page.

DHP-1320 / RT		SETUP	ADVANCED		TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	POR	T FORWARDIN	Helpful Hints				
PORT FORWARDING	This	option is used to (Check the Application				
APPLICATION RULES	throu	ugh those ports to	a single PC on your netwo	rk. This fe	eature allows you to	enter ports in	Name drop down menu
QOS ENGINE	5000), 689).	ig, Forcitaliges (100-150),	Individual	Ports (00, 00, 000	, or Mixed (1020-	applications. If you
NETWORK FILTER		Save Settings	Don't Save Settings	I			select one of the predefined applications,
ACCESS CONTROL		Juve Settings	borre buve becangs	J			click the arrow button
WEBSITE FILTER	24 -	PORT FORW	ARDING RULES				menu to fill out the
INBOUND FILTER					Ports to Open		corresponding field.
FIREWALL SETTINGS		Name			ТСР	Schedule	You can select a
ROUTING			Application Name	Ŧ	0	Always 👻	of DHCP clients in the
ADVANCED WIRELESS		IP Address			UDP	Inbound Filter	Computer Name drop down menu, or you can
WI-FI PROTECTED		0.0.0.0	Computer Name	•	0	Allow All 👻	manually enter the IP
SETUP		Name			ТСР	Schedule	computer to which you
ADVANCED NETWORK			Application Name	•	0	Always 🔻	would like to open the
IPv6		IP Address			UDP	Inbound Filter	specified port.
IPV6 ROUTING		0.0.0.0	Computer Name	•	0	Allow All 👻	Select a schedule for
		Name			TCP	Schedule	when the rule will be enabled. If you do not
			Application Name	-	0	Always 👻	see the schedule you
		IP Address			UDP	Inbound Filter	need in the list of schedules, go to the
		0.0.0.0	Computer Name	-	0	Allow All 👻	$\textbf{Tools} \rightarrow \textbf{Schedules}$
		Name			ТСР	Schedule	screen and create a new schedule.
			Application Name	-	0	Always 👻	
		IP Address			UDP	Inbound Filter	You can enter ports in
		0.0.0.0	Computer Name	-	0	Allow All 👻	various formats:

Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DHP-1320. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field, select the protocol type as TCP or UDP, then enter the firewall (public) ports associated with the trigger port to open them for inbound traffic.

- **Enable Checkbox:** Check the box on the left side to enable the Application Rule.
 - **Name:** Enter a name for the rule. You may select a pre-defined application from the **Application** drop-down menu and click <<.
 - **Trigger:** This is the port used to trigger the application. It can be either a single port or a range of ports.
 - Traffic Type: Select the protocol of the trigger port (TCP, UDP, or Any).
 - **Firewall:** This is the port number on the Internet side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.
 - Traffic Type: Select the protocol of the firewall port (TCP or UDP).
 - **Schedule:** The schedule of time when the Application Rule will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the **Tools** > **Schedules** section.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS		STATUS	SUPPORT
VIRTUAL SERVER	APPLICATION	RULES		· ·		Helpful Hints
PORT FORWARDING	This option is use	senses data	Lise this feature if you			
APPLICATION RULES	sent to the Inter	net on a "trigger" port or port ra	ange. Special Applica	itions rules app	ply to all	are trying to execute
QOS ENGINE	computers on you	ar incernal network.	_			network applications
NETWORK FILTER	Save Settings	Don't Save Settings				and it is not communicating as
ACCESS CONTROL						expected.
WEBSITE FILTER	24 APPLIC	ATION RULES	1			Check the Application
INBOUND FILTER			Port T	raffic Type	Schedule	Name drop down menu for a list of predefined
FIREWALL SETTINGS	Nam	Application	Trigger	TCP 👻		applications. If you
ROUTING		< Application Name	 Firewall 		Always 👻	predefined applications,
ADVANCED WIRELESS			0	TCP 👻		click the arrow button next to the drop down
WI-FI PROTECTED SETUP	Nam	Application	Trigger 0	TCP 🔻		menu to fill out the corresponding field.
ADVANCED NETWORK		< Application Name	 Firewall 		Always 👻	Select a schedule for
IPv6			0	TCP 🔻		when the service will be enabled. If you do
IPV6 ROUTING	Nam	e Application	Trigger 0	TCP 👻		not see the schedule you need in the list of schedules, go to the
		Application Name	 Firewall 0 	TCP 👻	Always 🔻	Tools → Schedules screen and create a new schedule.
	Nam	e Application	Trigger 0	TCP 🔻	Always	More
		Application Name	 Firewall 0 	TCP 🔻	Awdys •	
	Nam	e Application	Trigger 0	TCP 👻	Always	
		Application Name	 Firewall 0 	TCP 🔻	Awdys 🔻	

QoS Engine

The QoS Engine option helps improve your network gaming performance by prioritizing applications. By default the QoS Engine settings are disabled and application priority is not classified automatically.

- Enable Traffic This option is disabled by default. Enable this optionShapping: for better performance and experience with online games and other interactive applications, such as VoIP.
- Automatic UplinkThis option is enabled by default when the QoS Engine
option is enabled. This option will allow your router
to automatically determine the uplink speed of your
Internet connection.
- Measured Uplink This displays the detected uplink speed. Speed:
 - Manual UplinkThe speed at which data can be transferred from the
router to your ISP. This is determined by your ISP. ISP's
often define speed as a download/upload pair. For
example, 1.5Mbits/284Kbits. Using this example, you
would enter 284. Alternatively you can test your uplink
speed with a service such as www.dslreports.com.



Network Filter

Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the network. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the Broadband Router.

Configure MAC Select Turn MAC Filtering OFF, Turn MAC Filtering ON Filtering: and ALLOW computers listed to access the network, or Turn MAC Filtering ON and DENY computers listed to access the network from the drop-down menu.

MAC Address: Enter the MAC address you would like to filter.

To find the MAC address on a computer, please refer to the *Networking Basics* section in this manual.

DHCP Client List: Select a DHCP client from the **Computer Name** drop down menu and click << to copy that MAC Address.

DHP-1320 // RT	SETUP	ADVAN	CED	TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	MAC ADDRESS FIL	TER			•	Helpful Hints
PORT FORWARDING	The MAC (Media Acces	s Controller) Ad	dress filter o	option is used to control ne	twork access based on	Create a list of MAC
APPLICATION RULES	the MAC Address of the	e network adapt	ter. A MAC	address is a unique ID assig	ned by the	addresses that you
QOS ENGINE	network/Internet acce	ss.	This reacui	e can be configured to AL		allow or deny access to
NETWORK FILTER	Save Settings	Don't Save S	Settings	l		your network.
ACCESS CONTROL		builtbuilte	, cturigo	J		Computers that have
WEBSITE FILTER	24 MAC FILTER	from the router's DHCP				
INBOUND FILTER	Configure MAC Filtering	server will be in the DHCP Client List. Select				
FIREWALL SETTINGS	Turn MAC Filtering OFF			•		a device from the drop down menu, then click
ROUTING	MAC Address		DHCP Cli	ent List		the arrow to add that
ADVANCED WIRELESS	00:00:00:00:00:00		Computer	Name 👻	Clear	the list.
WI-FI PROTECTED SETUP	00:00:00:00:00:00		Computer	Name 👻	Clear	Click the Clear button
ADVANCED NETWORK	00:00:00:00:00:00] <<	Computer	Name 👻	Clear	to remove the MAC address from the MAC
IPv6	00:00:00:00:00:00] <<	Computer	Name 👻	Clear	Filtering list.
IPV6 ROUTING	00:00:00:00:00:00		Computer	Name 👻	Clear	More
	00:00:00:00:00:00] <<	Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name 👻	Clear	
	00:00:00:00:00:00] <<	Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name 👻	Clear	
	00:00:00:00:00:00] <<	Computer	Name 👻	Clear	
	00:00:00:00:00:00		Computer	Name -	Clear	

Access Control

The Access Control section allows you to control access in and out of your network. Use this feature as Parental Controls to only grant access to approved sites, limit web access based on time or dates, and/or block access from applications like P2P utilities or games.

Add Policy: Check the Enable Access Control check box and click the Add Policy button to start the Access Control Wizard.



Access Control Wizard

Click **Next** to continue with the wizard.

Step 1 - Choos	a unique name for y	our policy		
Step 2 - Select	a schedule			
Step 3 - Select	the machine to which	this policy applies		
Step 4 - Select	filtering method			
Step 5 - Select	filters			
Step 6 - Config	ure Web Access Loggi	na		

Enter a name for the policy and then click **Next** to continue.

STEP 1: CHOOSE POLICY NAME	
Choose a unique name for your policy.	
Policy Name :	
Pre	v Next Save Cancel

Select a schedule (I.E. Always) from the drop-down menu and then click **Next** to continue.

Choose a schedule to apply to this policy.							
		Always	•]			
	Details :	Always]	

Enter the following information and then click **Next** to continue.

- Address Type Select IP address, MAC address, or Other Machines.
- **IP Address** Enter the IP address of the computer you want to apply the rule to.

STEP 3: SELECT MACHINE	
Select the machine to which th	s policy applies.
Specify a machine with its IP or MA	C address, or select "Other Machines" for machines that do not have a policy.
Address Type :	IP O MAC O Other Machines
IP Address :	<< Computer Name
Machine Address :	< Computer Name v
	Copy Your PC's MAC Address
	OK Cancel
Machine	
	Prev Next Save Cancel

Select the filtering method and then click **Next** to continue.

STEP 4: SELECT FILTERING METHOD

Select the method for filtering.

Method :	Log Web Access Only Block All Access Block Some Access
Apply Web Filter :	
Apply Advanced Port Filters :	
	Prev Next Save Cancel

Enter the rule:

Enable - Check to enable the rule.
Name - Enter a name for your rule.
Dest IP Start - Enter the starting IP address.
Dest IP End - Enter the ending IP address.
Protocol - Select the protocol.
Dest Port Start - Enter the starting port number.
Dest Port End - Enter the ending port number.

Specify rules to pronibit access to specific in addresses and ports.									
nable	Name	Dest IP Start	Dest IP End	Protocol	Dest Port Start	Dest Port End			
		0.0.0.0	255.255.255.255	Any 👻	0	65535			
]		0.0.0.0	255.255.255.255	Any 👻	0	65535			
1		0.0.0.0	255.255.255.255	Any 👻	0	65535			
		0.0.0.0	255.255.255.255	Any 👻	0	65535			
]		0.0.0.0	255.255.255.255	Any 👻	0	65535			
1		0.0.0.0	255.255.255.255	Any 👻	0	65535			
1		0.0.0.0	255.255.255.255	Any 👻	0	65535			
_		0.0.0.0	255.255.255.255	Any 👻	0	65535			

To enable web logging, click **Enable**.

Click **Save** to save the access control rule.

STEP 6: CONFIGURE WEB ACCESS LOGGING						
Web Access Logging :	Disabled					
	Enabled					
	Prev Next Save Cancel					

Website Filter

Website Filters are used to allow you to set up a list of Web sites that can be viewed by multiple users through the network. To use this feature select the appropriate Web Filtering option, enter the domain or website, and click **Save Settings**.

Configure Web Select ALLOW computers access to ONLY these sites, or Filtering: DENY computers access to ONLY these sites from the drop-down menu.

Website URL: Enter the keywords or URLs that you want to allow or block.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	WEBSITE FILTER				Helpful Hints
PORT FORWARDING					Create a list of Web
APPLICATION RULES	The Website Filter opti	on allows you to set up a li	st of Web sites you would	like to allow or deny	Sites to which you
QOS ENGINE	the Access Control sect	tion.	ist also select the Apply V	ed Filter checkbox in	allow through the
NETWORK FILTER			<u>,</u>		network.
ACCESS CONTROL	Save Settings	Don't Save Settings	J		Use with Advanced
WEBSITE FILTER	40 - WEBSITE FILT	FERING RULES			→ Access Control.
INBOUND FILTER	Configure Website Filts	vr halour			More
FIREWALL SETTINGS	DENV computers access t	n ONLY these sites			
ROUTING	Denti compotero deceso (o oner these sites			
ADVANCED WIRELESS	Clear the list below.				
WI-FI PROTECTED SETUP		Website UF	RI / Domain		
ADVANCED NETWORK					
IPv6					
IPV6 ROUTING					
			-		
		_			
			-		

Inbound Filter

The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range. Inbound Filters can be used with Virtual Server, Port Forwarding, or Remote Administration features.

Name: Enter a name for the inbound filter rule.

Action: Select Allow or Deny.

Enable: Check to enable rule.

- **Remote IP** Enter the starting IP address. Enter 0.0.0.0 if you **Start:** do not want to specify an IP range.
- **Remote IP** Enter the ending IP address. Enter 255.255.255.255 **End:** if you do not want to specify and IP range.
 - Add: Click the Add button to apply your settings.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	5	STATUS	SUPPORT			
VIRTUAL SERVER	INBOUND FILTER					Helpful Hints			
PORT FORWARDING						Give each rule a			
APPLICATION RULES	The Inbound Filter opt	ion is an advanced met	hod of controlling dat	ta received	from the Internet.	Name that is			
QOS ENGINE	address range.	can configure inbouriu c	laca nicenny rules cha	ic control u	ata Daseu on an ip	meaningrui to you.			
NETWORK FILTER	Tehound Filters can be	used for limiting access		ootwork to	a custom or group of	Each rule can either			
ACCESS CONTROL	systems. Filter rules car	ote Administration	access from the						
WEBSITE FILTER	reatures.					WAN.			
INBOUND FILTER						Up to eight ranges of			
FIREWALL SETTINGS	ADD INBOUND FIL		can be controlled by						
ROUTING			each rule. The checkbox by each IP						
ADVANCED WIRELESS	Action : Allow All -								
WI-FI PROTECTED SETUP	Remote	IP Range : Enable	Remote IP Start	Remot	e IP End	defined.			
ADVANCED NETWORK			0.0.0.0	255.255	.255.255	The starting and			
IPv6			0.0.0.0	255.255	.255.255	ending IP addresses are WAN-side			
IPV6 ROUTING			0.0.0.0	255.255	.255.255	address.			
			0.0.0.0	255.255	.255.255	Click the Add or			
			0.0.0.0	255.255	.255.255	store a finished rule			
			0.0.0.0	255.255	.255.255	in the Rules List below.			
			0.0.0.0	255.255	.255.255	Click the Edit icon in			
			0.0.0.0	255.255	.255.255	the Rules List to			
		Add	Clear			change a rule.			
						Click the Delete icon			
	INBOUND FILTER F	RULES LIST				permanently remove			
	Name Action	Remote	IP Range			a rule.			
						Mara			

Firewall Settings

A firewall protects your network from the outside world. The DHP-1320 offers a firewall type functionality. The SPI feature helps prevent cyber attacks. Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ. DMZ is short for Demilitarized Zone. This option will expose the chosen computer completely to the outside world.

- **Firewall Settings:** Check the **Enable SPI** box to enable the SPI (Stateful Packet Inspection, also known as dynamic packet filtering) feature. Enabling SPI helps to prevent cyber attacks by tracking more state per session. It validates that the traffic passing through the session conforms to the protocol.
 - NAT Endpoint Select one of the following for TCP and UDP ports:
 Filtering: Endpoint Independent Any incoming traffic sent to an open port will be forwarded to the application that opened the port. The port will close if idle for 5 minutes.

Address Restricted - Incoming traffic must match the IP address of the outgoing connection.

Address + Port Restriction - Incoming traffic must match the IP address and port of the outgoing connection.

Enable Anti-Spoof Enable this option to provide protection from certain kinds **Checking:** of "spoofing" attacks.



DMZ Host: If an application has trouble working from behind the router, you can expose one computer to the Internet and run the application on that computer.

Carry out the following to create a DMZ host:

- 1. Check the **Enable DMZ** box.
- 2. Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication in the DMZ IP address field. To specify an existing DHCP client, use the Computer Name drop-down to select the computer that you want to make a DMZ host. If selecting a computer that is a DHCP client, be sure to make a static reservation in the Setup > Network Settings page so that the IP address of the DMZ machine does not change.
- 3. Click the **Save Settings** button to add the new DMZ host.
- **IP Address:** Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication. If this computer obtains its IP address automatically using DHCP, be sure to make a static reservation on the **System > Network Settings** page so that the IP address of the DMZ machine does not change.

Routing

The Routing option is an advanced method of customizing specific routes of data through your network.

Routing List: Each Route has a checkbox next to it, check the box of the route you wish to enable.

Name: Specify a name for identification of this route.

- **Interface:** Select the interface which the IP packet must use to transit out of the router when this route is used.
- **Destination IP:** Enter the address of the host or network you wish to access.
 - **Netmask:** This field identifies the portion of the destination IP in use.
 - Gateway: The IP address of the router will be displayed here.

DHP-1320 RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	ROUTING :				Helpful Hints
PORT FORWARDING					Each route has a check
APPLICATION RULES	This Routing page all	ows you to specify custom ro	outes that determine how o	data is moved around	box next to it, check
QOS ENGINE	your network.				route to be enabled.
NETWORK FILTER					The name field allows
ACCESS CONTROL	Save Settings	Don't Save Settings	J		you to specify a name
WEBSITE FILTER	32 ROUTE LIST				route, e.g. 'Network 2'
INBOUND FILTER					The destination TD
FIREWALL SETTINGS	Manag	Destination ID	Metric	Interface	address is the address
ROUTING	Name	0.0.0.0			of the host or network you wish to reach.
ADVANCED WIRELESS	Netmask	gateway	1	WAN -	,
WI-FI PROTECTED	0.0.0.0	0.0.00			The netmask field identifies the portion of
SETUP	Name	Destination IP			the destination IP in
ADVANCED NETWORK		0.0.0.0	1	WAN	use.
IPv6	Netmask	gateway	-		The gateway IP
	0.0.0.0	0.0.00			address is the IP address of the router, if
	Name	Destination IP			any, used to reach the
		0.0.00	1	WAN -	specified destination.
	Netmask	gateway			More
	0.0.0	0.0.00			
	Name	Destination IP			
		0.0.00	1	WAN -	
	Netmask	gateway			
	0.0.0.0	0.0.0.0			

Advanced Wireless Settings 802.11n/b/g (2.4GHz)

Transmit Power: Set the transmit power of the antennas.

- **Beacon Period:** Beacons are packets sent by an Access Point to synchronize a wireless network. Specify a value. 100 is the default setting and is recommended.
- **RTS Threshold:** This value should remain at its default setting of 2346. If inconsistent data flow is a problem, only a minor modification should be made.
- **DTIM Interval:** (Delivery Traffic Indication Message) 1 is the default setting. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.



WLAN Partition: This enables 802.11d operation. 802.11d is a wireless specification developed to allow implementation of wireless networks in countries that cannot use the 802.11 standard. This feature should only be enabled if you are in a country that requires it.

WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

Short Guard Check this box to reduce the guard interval time therefore increasing the data capacity. However, it's less reliable and may create Interval: higher data loss.

Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS) System is a simplified method for securing your wireless network during the "Initial setup" as well as the "Add New Device" processes. The Wi-Fi Alliance (WFA) has certified it across different products as well as manufactures. The process is just as easy, as depressing a button for the Push-Button Method or correctly entering the 8-digit code for the Pin-Code Method. The time reduction in setup and ease of use are quite beneficial, while the highest wireless Security setting of WPA2 is automatically used.

Enable: Enable the Wi-Fi Protected Setup feature.

PIN Settings: A PIN is a unique number that can be used to add the router to an existing network or to create a new network. The default PIN may be printed on the bottom of the router. For extra security, a new PIN can be generated. You can restore the default PIN at any time. Only the Administrator ("admin" account) can change or reset the PIN.

PIN: Shows the current value of the router's PIN.

- **Reset PIN to** Click this button to restore the default PIN of the router. **Default:**
- **Generate New** Click this button to create a random number that is a **PIN:** valid PIN. This becomes the router's PIN. You can then copy this PIN to the user interface of the registrar.



Add Wireless Click the Add Wireless Device with WPS button to start Wireless Connection Setup Wizard. This wizard helps you add wireless Station: devices to the wireless network.

The wizard will either display the wireless network settings to guide you through manual configuration, prompt you to enter the PIN for the device, or ask you to press the configuration button on the device. If the device supports Wi-Fi Protected Setup and has a configuration button, you can add it to the network by pressing the configuration button on the device and then the on the router within 60 seconds. The status LED on the router will flash three times if the device has been successfully added to the network.

There are several ways to add a wireless device to your network. A "registrar" controls access to the wireless network. A registrar only allows devices onto the wireless network if you have entered the PIN, or pressed a special Wi-Fi Protected Setup button on the device. The router acts as a registrar for the network, although other devices may act as a registrar as well.

Advanced Network

- **Enable UPnP:** To use the Universal Plug and Play (UPnP[¬]) feature click on **Enabled**. UPNP provides compatibility with networking equipment, software and peripherals.
- **Enable WAN Ping** Unchecking the box will not allow the DHP-1320 to **Response:** respond to pings. Blocking the Ping may provide some extra security from hackers. Check the box to allow the Internet port to be "pinged".
- WAN Port Speed: You may set the port speed of the Internet port to 10Mbps, 100Mbps, or auto. Some older cable or DSL modems may require you to set the port speed to 10Mbps.
- **Enable Multicast** Check the **Enable Multicast Streams** box to allow multicast **Streams:** traffic to pass through the router from the Internet.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	ADVANCED NETWO	ORK			Helpful Hints
PORT FORWARDING					LIPnP helps other
APPLICATION RULES	If you are not familiar	with these Advanced Net	work settings, please read	the help section	UPnP LAN hosts
QOS ENGINE	before accempting to	moully crese seconds.			the router. Leave
NETWORK FILTER	Save Settings	Don't Save Settings			the UPnP option enabled as long as
ACCESS CONTROL					the LAN has other
WEBSITE FILTER	UPNP				
INBOUND FILTER	Universal Plug and F	Play (IIPnP) supports pe	er-to-neer Plug and Pla	av functionality for	For added security,
FIREWALL SETTINGS	network devices.	ay (or in) supported po	to peer ring and rik	ry runceionancy ror	that you disable the
ROUTING	5	hla upan . 💷			option. Ping kespond option. Ping is often
ADVANCED WIRELESS	Ena	idie OPNP : M			used by malicious Internet users to
WI-FI PROTECTED SETUP	WAN PING				locate active networks or PCs.
ADVANCED NETWORK	If you enable this fe from the Internet t	eature, the WAN port o hat are sent to the WA	f your router will respo N IP Address.	nd to ping requests	The WAN speed is usually detected
IPV6 ROUTING	Enable WAN Ping	Respond : 🛛			are having problems
	WAN Ping Inbo	und Filter : Allow All 👻]		WAN, try selecting
		Details : Allow_All			che speeu manually.
					If you are having trouble receiving
	WAN PORT SPEED				multicast streams
	WAN Po	ort Speed: 10/100Mbps	Auto 👻		make sure the
	MULTICAST STRE	AMS			option is enabled.
	Enable Multicast	Streams :			More

IPv6

Use the IPv6 window to configure the mode that the Router will use to access an IPv6 Internet connection.

My IPv6 Use the drop-down menu to select the IPv6 **Connection is:** Internet Connection mode.



IPv6 Static IPv6

Select **Static IPv6** from the **My IPv6 Connection is** drop-down menu if your Router will use a static IPv6 address to connect to the Internet.

WAN IPv6 Address Enter the address settings supplied by your Internet Settings: provider (ISP).

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

LAN Address Use this section to configure the IPv6 autoconfiguration Autoconfiguration settings. Settings:

IPv6 CONNECTION TYPE		
Choose the mode to be used by the router to the IPv6 Internet.		
My IPv6 Connection is :	Static IPv6	
WAN IPv6 ADDRESS SETTIN	GS :	
Enter the IPv6 address information provided by your Internet Service Provider (ISP).		
Use Link-Local Address :		
IPv6 Address :		
Subnet Prefix Length :		
Defautl Gateway :		
Primary DNS Address :		
Secondary DNS Address :		
LAN IPv6 ADDRESS SETTING	3S :	
Use this section to configure the interna here, you may need to adjust your PC's	l network setings of your router. If you change the LAN IPv6 Address network settings to access the network again.	
LAN IPv6 Address :	/64	
LAN IPv6 Link-Local Address :	FE80::211:22FF:FE07:2717/64	
ADDRESS AUTOCONFIGURAT	TON SETTINGS	
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.		
Enable automatic IPv6 address assignment :	V	
Autoconfiguration Type :	Stateless 👻	
Router Advertisement Lifetime:	1440 (minutes)	

IPv6 Static IPv6 - Stateless

To configure the Router to use a Static IPv6 Stateless connection, configure the parameters in the LAN Address Autoconfiguration Settings section as described below:

Enable automatic	Check to enable the Autoconfiguration feature.
IPV6 address	
assignment:	

Autoconfiguration Select the *Stateless* option from the drop-down menu. Type:

Router Enter the Router Advertisement Lifetime (in minutes). Advertisement Lifetime:

ADDRESS AUTOCONFIGURATION SETTINGS		
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.		
Enable automatic IPv6 address assignment :		
Autoconfiguration Type :	Stateless 👻	
Router Advertisement Lifetime:	1440 (minutes)	

IPv6 Static IPv6 - Stateful

To configure the Router to use a Static IPv6 Stateful connection, configure the parameters in the LAN Address Autoconfiguration Settings section as described below:

Enable Check to enable the Autoconfiguration feature. **Autoconfiguration:**

- Autoconfiguration Select the *Stateful(DHCPv6)* option from the drop-down **Type:** menu.
- IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your Start: local computers.
- IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your End: local computers.
 - IPv6 Address Enter the IPv6 Address Lifetime (in minutes). Lifetime:

ADDRESS AUTOCONFIGURATION SETTINGS			
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.			
Enable Autoconfiguration :	\checkmark		
Autoconfiguration Type :	Stateful (DHCPv6) 🔻		
IPv6 Address Range(Start):		:	/64
IPv6 Address Range(End):		:	/64
IPv6 Address Lifetime:	1440 (minute	s)	

IPv6 Autoconfiguration (Stateless/DHCPv6)

Select **Static IPv6** from the **My IPv6 Connection is** drop-down menu if your Router will use a static IPv6 address to connect to the Internet.

IPv6 DNS Settings:	Select Obtain DNS Server address automatically or enter a specific DNS server address.	Choose the mode to be used by the router to the IPv6 Internet.
		My IPv6 Connection is : Autoconfiguration (Stateless/DHCPv6) -
LAN IPv6 Address	Enter the LAN (local) IPv6 address for the router.	
Settings:		IPv6 DNS SETTINGS :
-		
LAN IPv6	Displays the Router's LAN Link-Local Address.	Obtain DNS server address automatically or enter a specific DNS server address.
LINK-LOCAL Address:		 Obtain IPv6 DNS Servers automatically
		Use the following IPv6 DNS Servers
Address	Use this section to configure the IPv6 autoconfiguration	Primary DNS Address :
Autoconfiguration	settings.	Secondary DNS Address :
Settings:	5	
5		
		LAN IPVO ADDRESS SETTINGS .
Click the Save S	Settings button to save any changes made.	Use this section to configure the internal network setings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC's network settings to access the network again.
		Enable DHCD-PD · 📝
		LAN IPVO Address : /64
		LAN IPV6 LINK-LOCALADDRESS : FE80::211:22FF:FE07:2717/64
		ADDRESS AUTOCONFIGURATION SETTINGS
		Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.
		Enable automatic IPv6 address assignment :
		Autoconfiguration Type : Stateless
		Router Advertisement
		Lifetime: (minutes)

IPv6

Autoconfiguration (Stateless/DHCPv6) - Stateless

To configure the Router to use a Static IPv6 Stateless connection, configure the parameters in the LAN Address Autoconfiguration Settings section as described below:

Enable automatic	Check to enable the Autoconfiguration feature.
IPv6 address	
assignment:	

Autoconfiguration Select the *Stateless* option from the drop-down menu. Type:

Router Enter the Router Advertisement Lifetime (in minutes). Advertisement Lifetime:

ADDRESS AUTOCONFIGURATION SETTINGS		
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.		
Enable automatic IPv6 address assignment :		
Autoconfiguration Type :	Stateless 👻	
Router Advertisement Lifetime:	1440 (minutes)	

IPv6

Autoconfiguration (Stateless/DHCPv6) - Stateful

To configure the Router to use a Static IPv6 Stateful connection, configure the parameters in the LAN Address Autoconfiguration Settings section as described below:

- Enable automatic Check to enable the Autoconfiguration feature. IPv6 address assignment:
- Autoconfiguration Select the *Stateful(DHCPv6)* option from the drop-down Type: menu.
- IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your Start: local computers.
- IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your End: local computers.
 - IPv6 Address Enter the IPv6 Address Lifetime (in minutes). Lifetime:
 - Click the Save Settings button to save any changes made.

ADDRESS AUTOCONFIGURATION SETTINGS		
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.		
Enable automatic IPv6 address assignment :	V	
Autoconfiguration Type :	Stateful DHCPv6 👻	
IPv6 Address Range(Start):] ::
IPv6 Address Range(End):		::
IPv6 Address Lifetime:	1440	(minutes)
IPv6 6to4

Select 6to4 from the My IPv6 Connection is drop-down menu if your Router will use a 6 to 4 tunnel to connect to the Internet.

Primary DNS	Enter the DNS Address supplied by your Internet provider
Address:	(ISP).

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

Click the Save Settings button to save any changes made.

IPv6 CONNECTION TYPE		
Choose the mode to be used by the router to the IPv6 Internet.		
My IPv6 Connection is : 6to4		
6to4 SETTINGS :		
Enter the IPv6 address information provided by your Internet Service Provider (ISP)		
6to4 Address : 0:0:0:0:0:0:0:0		
6to4 Relay: 192.88.99.1		
Primary DNS Address :		
Secondary DNS Address :		
Use this section to configure the internal network setings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC's network settings to access the network again.		
LAN IPv6 Link-Local Address : FE80::211:22FF:FE07:2717/64		
LAN ADDRESS AUTOCONFIGURATION SETTINGS		
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.		
Enable automatic IPv6 address assignment :		
Autoconfiguration Type : Stateless		
Router Advertisement Lifetime: 1440 (minutes)		

IPv6 6to4 - Stateless

To configure the Router to use an IPv6 to IPv4 tunnel stateless autoconfiguration connection, configure the parameters in the LAN Address Autoconfiguration Settings section as described below:

Enable automatic Check to enable the Autoconfiguration feature.	ADDRESS AUTOCONFIGURATION SETTINGS
assignment:	Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.
Autoconfiguration Select the <i>Stateless</i> option from the drop-down menu. Type:	Enable automatic IPv6 address assignment : Autoconfiguration Type : Stateless Router Advertisement
Router Enter the Router Advertisement Lifetime (in minutes). Advertisement Lifetime:	Lifetime:

Click the Save Settings button to save any changes made.

IPv6 6to4 - Stateful

To configure the Router to use an IPv6 to IPv4 tunnel stateful autoconfiguration connection, configure the parameters in the LAN Address Autoconfiguration Settings section as described below:

Enable automatic Check to enable the Autoconfiguration feature. IPv6 address assignment:

Autoconfiguration Select the Stateful option from the drop-down menu. Type:

IPv6 Address Enter the start IPv6 Address for the DHCPv6 range for Range Start: your local computers.

- IPv6 Address Enter the end IPv6 Address for the DHCPv6 range for Range End: your local computers.
- IPv6 Address Enter the IPv6 Address Lifetime (in minutes). Lifetime:

Click the **Save Settings** button to save any changes made.

ADDRESS AUTOCONFIGURATION SETTINGS			
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.			
Enable automatic IPv6 address assignment :			
Autoconfiguration Type :	Stateful DHCPv6 🔻		
IPv6 Address Range(Start):		::	
IPv6 Address Range(End):		::	
IPv6 Address Lifetime:	1440	(minutes)	

IPv6 6rd

My IPv6 Select 6rd from the drop-down menu. Connection:

6rd IPv6 Prefix: Enter the settings supplied by your Internet provider (ISP).

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

IPv6 CONNECTION TYPE		
Choose the mode to be used by	y the router to the IPv6 Internet.	
My IPv6 Connection is :	6rd 💌	
6rd SETTINGS :		
Enter the IPv6 address information	tion provided by your Internet Service Provider (ISP).	
6rd IPv6 Prefix :	/ 32	
IPv4 Address :	0.0.0.0 Mask Length: 0	
Assigned IPv6 Prefix : I	None	
Tunnel Link-Local Address : 6rd Roby :	FE80::0000:0000/64	
Difference DNC Address :		
Primary DNS Address :		
Secondary DNS Address :		
LAN IPv6 ADDRESS SETTING	3S :	
Use this section to configure the internal network setings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC's network settings to access the network again.		
LAN IPv6 Address : I	None FERN: 211:22FF:FEN7:2717/64	
LAN 1PV6 LINK-LOCAL Address : FE80::211:22FF:FE07:2717/64		
LAN ADDRESS AUTOCONFIG	JRATION SETTINGS	
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.		
Enable automatic IPv6 address assignment :		
Autoconfiguration Type :	Stateless 💌	
Router Advertisement Lifetime:	1440 (minutes)	

IPv6 6rd (Stateless)

Enable automatic Check to enable the Autoconfiguration feature. IPv6 address assignment:

Autoconfiguration Select the *Stateless* option from the drop-down menu. Type:

Router Enter the Router Advertisement Lifetime (in minutes). Advertisement Lifetime:

Click the Save Settings button to save any changes made.

LAN ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :		
Autoconfiguration Type :	Stateless 🔹	
Router Advertisement Lifetime:	1440	(minutes)

IPv6 6rd (Stateful)

- Enable automatic Check to enable the Autoconfiguration feature. IPv6 address assignment:
- AutoconfigurationSelect the Stateful DCHPv6 option from the drop-downType:menu.

IPv6 Address Enter the start IPv6 Address for the DHCPv6 range for your local computers.

- **IPv6 Address** Enter the end IPv6 Address for the DHCPv6 range for your local computers.
- IPv6 Address Enter the IPv6 Address Lifetime (in minutes). Lifetime:

Click the Save Settings button to save any changes made.

LAN ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :		
Autoconfiguration Type :	Stateful DHCPv6 💌	
IPv6 Address Range(Start):		::
IPv6 Address Range(End):		::
IPv6 Address Lifetime:	1440	(minutes)

IPv6 IPv6 over IPv4 Tunnel

My IPv6 Select IPv6 over IPv4 Tunnel from the drop-down Connection: menu.

IPv6 over IPv4 Enter the IPv6 settings supplied by your Tunnel Broker. **Tunnel Settings:**

- **IPv6 DNS Settings:** Obtain a DNS server address automatically or enter a specific DNS server address.
- Primary/Secondary Enter the primary and secondary DNS server addresses. DNS Address:
- LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

ID-C CONNECTION TYPE	
IPV6 CONNECTION TYPE	
Choose the mode to be used	by the router to the IPv6 Internet.
	,
My IPv6 Connection is :	IPv6 over IPv4 Tunnel 🚽
IPv6 over IPv4 TUNNEL	SETTINGS :
Enter the IPv6 over IPv4 Tu	nnel information provided by your Tunnel Broker.
Remote IPv4 Address :	
Remote IPv6 Address :	
Local IPv4 Address :	0.0.0.0
Local IPv6 Address :	
IPV6 DNS SETTINGS :	
Obtain a DNS server address address.	automatically or enter a specific DNS server
٥	Obtain IPv6 DNS Servers automatically
	Use the following IDv6 DNS Servers
Duinner DNC Address	Use the following IP VO DIVUS Delivers
Primary DNS Address :	
Secondary DNS Address :	
LAN IDVE ADDRESS SETT	INGS .
LAN IPV6 ADDRESS SETT	1005 :
Use this section to configure the intern	al network setings of your router. If you change the LAN IPv6 Address
here, you may need to adjust your PC's	network settings to access the network again.
	_
Enable DHCP-PD :	
LAN IPv6 Address :	/64
LAN IPv6 Link-Local	FE80::211:22FF:FE07:2717/64
70012551	
LAN ADDRESS AUTOCON	FIGURATION SETTINGS
Use this section to setup IPv6 Autoconfi	iguration to assign IP addresses to the computers on your network.
Enable automatic IDv6	
address assignment :	V
Autoconfiguration Type :	Stateless 🖉
Router Advertisement	144) (minutes)

IPv6 IPv6 over IPv4 Tunnel - Stateless

Enable automatic Check to enable the IPv6 address assignment IPv6 address feature. assignment:

Autoconfiguration Select Stateless. Refer to the previous page for Type: Stateful.

Router Enter the Router Advertisement Lifetime (in Advertisement minutes). Lifetime:

LAN ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :		
Autoconfiguration Type :	Stateless 👻	
Router Advertisement Lifetime:	1440	(minutes)