

D-Link *AirPlus* GTM DI-524

**802.11g/ 2.4 GHz
Wireless Router**

Manual

D-Link[®]

Building Networks for People

Contents

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Package Contents



Contents of Package:

- **D-Link AirPlus G DI-524**
802.11/2.4GHz Wireless Router
- Power Adapter-DC 7.5V, 1.5A
- Manual and Warranty on CD
- Quick Installation Guide
- Ethernet Cable (All the DI-524's Ethernet ports are Auto-MDIX)

Note: Using a power supply with a different voltage rating than the one included with the DI-524 will cause damage and void the warranty for this product.

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

System Requirements for Configuration:

- Ethernet-Based Cable or DSL Modem
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer Version 6.0 or Netscape Navigator Version 7.0 and Above

Introduction

The D-Link *AirPlus G* DI-524 High-Speed Wireless Router is an 802.11g high-performance, wireless router that supports high-speed wireless networking at home, at work or in public places.

Unlike most routers, the DI-524 provides data transfers at up to 108 Mbps (compared to the standard 54 Mbps) when used with other D-Link *AirPlus G* products. The 802.11g standard is backwards compatible with 802.11b products. This means that you do not need to change your entire network to maintain connectivity. You may sacrifice some of 802.11g's speed when you mix 802.11b and 802.11g devices, but you will not lose the ability to communicate when you incorporate the 802.11g standard into your 802.11b network. You may choose to slowly change your network by gradually replacing the 802.11b devices with 802.11g devices .

In addition to offering faster data transfer speeds when used with other 802.11g products, the DI-524 has the newest, strongest, most advanced security features available today. When used with other 802.11g WPA (WiFi Protected Access) and 802.1x compatible products in a network with a RADIUS server, the security features include:

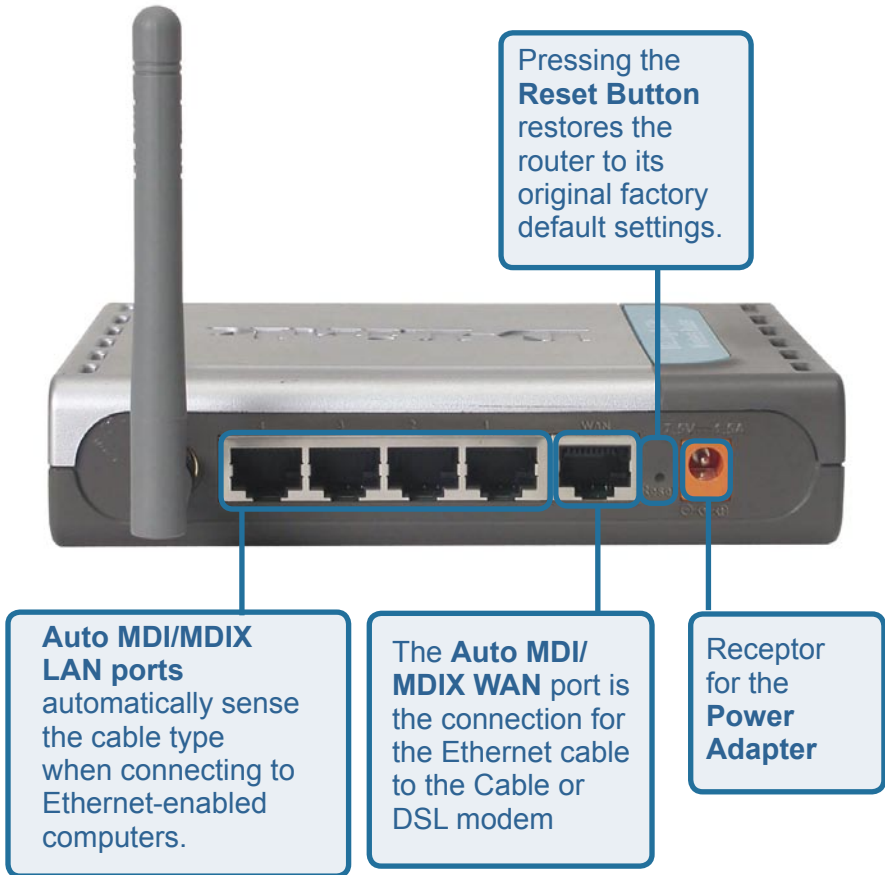
WPA: Wi-Fi Protected Access authorizes and identifies users based on a secret key that changes automatically at a regular interval. **WPA** uses **TKIP (Temporal Key Integrity Protocol)** to change the temporal key every 10,000 packets (a packet is a kind of message transmitted over a network.) This insures much greater security than the standard WEP security. (By contrast, the older WEP encryption required the keys to be changed manually.)

802.1x: Authentication is a first line of defense against intrusion. In the Authentication process the server verifies the identity of the client attempting to connect to the network. Unfamiliar clients would be denied access.

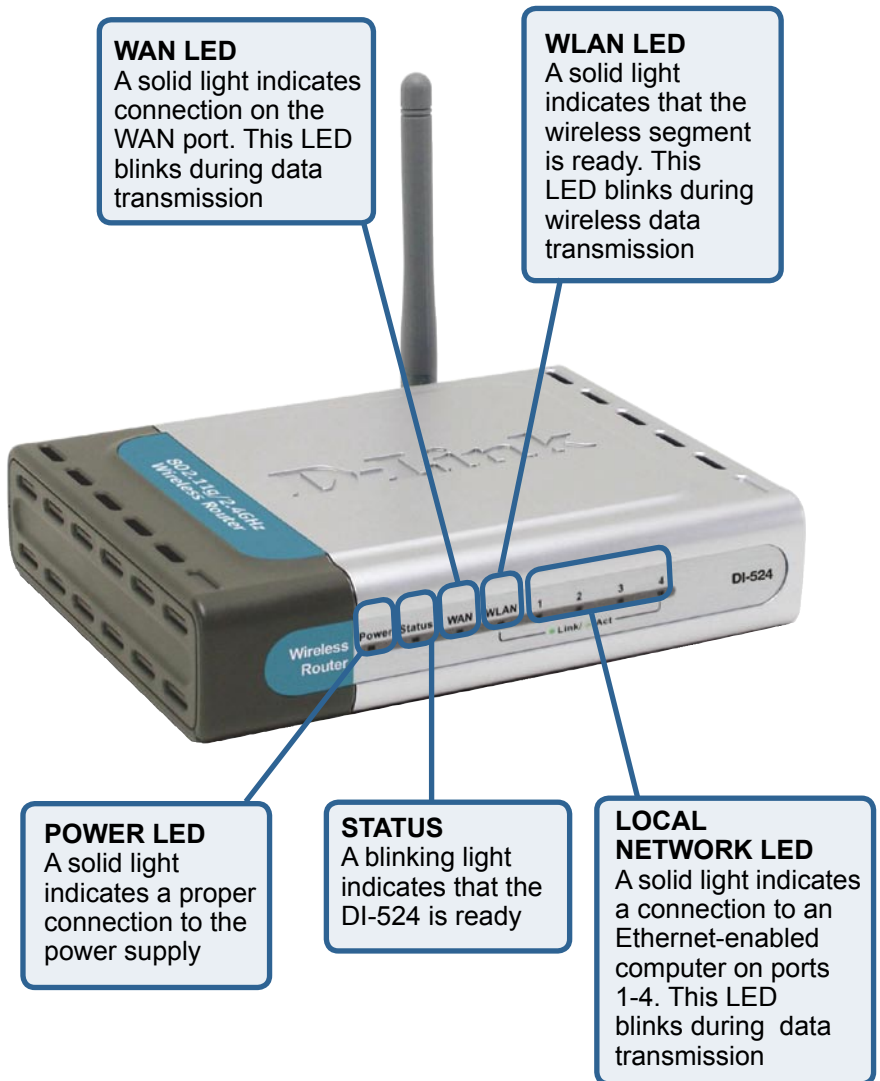
For home users that will not incorporate a RADIUS server in their network, the security for the DI-524, used in conjunction with other 802.11g products, will still be much stronger than ever before. Utilizing the **Pre Shared Key mode** of WPA, the DI-524 will obtain a new security key every time it connects to the 802.11g network. You only need to input your encryption information once in the configuration menu. No longer will you have to manually input a new WEP key frequently to ensure security, with the DI-524, you will automatically receive a new key every time you connect, vastly increasing the safety of your communications.

Connections

All Ethernet Ports (WAN and LAN) are auto MDI/MDIX, meaning you can use either a straight-through or a crossover Ethernet cable.



LEDs



Features

- Fully compatible with the 802.11g standard to provide a wireless data rate of up to 54Mbps
- Backwards compatible with the 802.11b standard to provide a wireless data rate of up to 11Mbps
- **WPA** (Wi Fi Protected Access) authorizes and identifies users based on a secret key that changes automatically at a regular interval, for example:
 - **TKIP** (Temporal Key Integrity Protocol), in conjunction with a RADIUS server, changes the temporal key every 10,000 packets, ensuring greater security
 - **Pre Shared Key** mode means that the home user, without a RADIUS server, will obtain a new security key every time the he or she connects to the network, vastly improving the safety of communications on the network.
- 802.1x **Authentication** in conjunction with the RADIUS server verifies the identity of would be clients
- Utilizes **OFDM** technology (**O**rthogonal **F**requency **D**ivision **M**ultiplexing)
- User-friendly configuration and diagnostic utilities
- Operates in the 2.4GHz frequency range
- Connects multiple computers to a Broadband (Cable or DSL) modem to share the Internet connection
- Advanced Firewall features
 - Supports NAT with VPN pass-through, providing added security
 - MAC Filtering
 - IP Filtering
 - URL Filtering
 - Domain Blocking
 - Scheduling
- DHCP server supported enables all networked computers to automatically receive IP addresses
- Web-based interface for Managing and Configuring
- Access Control to manage users on the network
- Supports special applications that require multiple connections
- Equipped with 4 10/100 Ethernet ports, 1 WAN port, Auto MDI/MDIX

Wireless Basics

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

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

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

People use wireless LAN technology for many different purposes:

Mobility - Productivity increases when people have access to data in any location within the operating range of the WLAN. Management decisions based on real-time information can significantly improve worker efficiency.

Low Implementation Costs – WLANs are easy to set up, manage, change and relocate. Networks that frequently change can benefit from WLANs ease of implementation. WLANs can operate in locations where installation of wiring may be impractical.

Installation and Network Expansion - Installing a WLAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings. Wireless technology allows the network to go where wires cannot go - even outside the home or office.

Scalability – WLANs can be configured in a variety of topologies to meet the needs of specific applications and installations. Configurations are easily changed and range from peer-to-peer networks suitable for a small number of users to larger infrastructure networks to accommodate hundreds or thousands of users, depending on the number of wireless devices deployed.

Inexpensive Solution - Wireless network devices are as competitively priced as conventional Ethernet network devices.

Wireless Basics (*continued*)

Standards-Based Technology

The DI-524 Wireless Broadband Router utilizes the new **802.11g** standard.

The IEEE **802.11g** standard is an extension of the 802.11b standard. It increases the data rate up to 54 Mbps within the 2.4GHz band, utilizing **OFDM technology**.

This means that in most environments, within the specified range of this device, you will be able to transfer large files quickly or even watch a movie in MPEG format over your network without noticeable delays. This technology works by transmitting high-speed digital data over a radio wave utilizing **OFDM (Orthogonal Frequency Division Multiplexing)** technology. **OFDM** works by splitting the radio signal into multiple smaller sub-signals that are then transmitted simultaneously at different frequencies to the receiver. **OFDM** reduces the amount of **crosstalk** (interference) in signal transmissions.

The DI-524 is backwards compatible with 802.11b devices. This means that if you have an existing 802.11b network, the devices in that network will be compatible with 802.11g devices at speeds of up to 11Mbps in the 2.4GHz range.

Wireless Basics *(continued)*

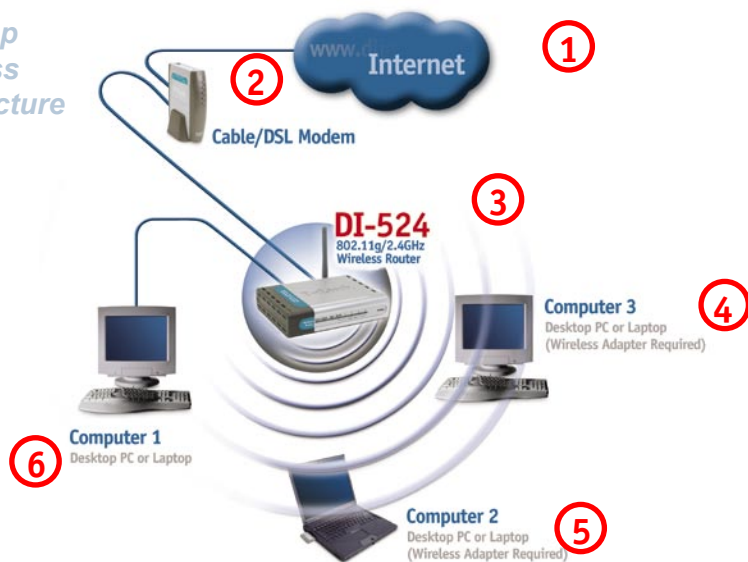
Installation Considerations

The D-Link AirPlus G DI-524 lets you access your network, using a wireless connection, from virtually anywhere within its operating range. 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 DI-524 and other network devices to a minimum - each wall or ceiling can reduce your D-Link wireless product'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 can impede the wireless signal - a solid metal door or aluminum studs may have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways and not other materials.
- 4** Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate extreme RF noise.

Getting Started

Setting up a Wireless Infrastructure Network



Please remember that D-Link AirPlus G wireless devices are pre-configured to connect together, right out of the box, with their default settings.

**For a typical wireless setup at home (as shown above),
please do the following:**

- 1** You will need broadband Internet access (a Cable or DSL-subscriber line into your home or office)
- 2** Consult with your Cable or DSL provider for proper installation of the modem
- 3** Connect the Cable or DSL modem to the DI-524 Wireless Broadband Router (see the printed Quick Installation Guide included with your router.)
- 4** If you are connecting a desktop computer to your network, install the D-Link AirPlus G DWL-G510 wireless PCI adapter into an available PCI slot on your desktop computer. You may also install the DWL-G510, or the DWL-520. (See the printed Quick Installation Guide included with the network adapter.)
- 5** Install the D-Link DWL-G630 wireless Cardbus adapter into a laptop computer. (See the printed Quick Installation Guide included with the DWL-G630.)
- 6** Install the D-Link DFE-530TX+ adapter into a desktop computer. The four Ethernet LAN ports of the DI-524 are Auto MDI/MDIX and will work with both Straight-Through and Cross-Over cable. (See the printed Quick Installation Guide included with the DFE-530TX+.)

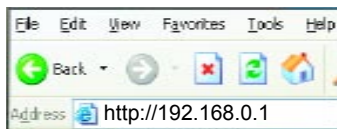
Using the Configuration Menu

Whenever you want to configure your network or the DI-524, you can access the Configuration Menu by opening the web-browser and typing in the IP Address of the DI-524. The DI-524 default IP Address is shown at right:

- Open the web browser
- Type in the **IP Address** of the Router (<http://192.168.0.1>)

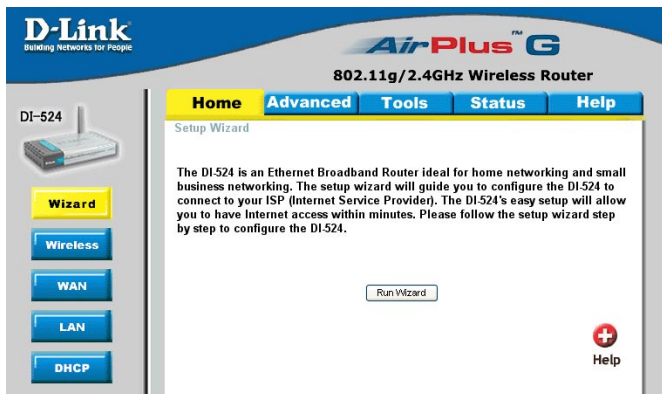
Note: if you have changed the default IP Address assigned to the DI-524, make sure to enter the correct IP Address.

- Type **admin** in the **User Name** field
- Leave the **Password** blank
- Click **OK**



Home > Wizard

The Home>Wizard screen will appear. Please refer to the *Quick Installation Guide* for more information regarding the Setup Wizard.



These buttons appear on most of the configuration screens in this section. Please click on the appropriate button at the bottom of each screen after you have made a configuration change.



Apply

Clicking **Apply** will save changes made to the page



Cancel

Clicking **Cancel** will clear changes made to the page



Help

Clicking **Help** will bring up helpful information regarding the page



Restart

Clicking **Restart** will restart the router. (Necessary for some changes.)

Using the Configuration Menu (continued)

Home > Wireless

The screenshot shows the D-Link configuration interface for an AirPlus G 802.11g/2.4GHz Wireless Router. The left sidebar contains a navigation menu with buttons for Wizard, Wireless (highlighted), WAN, LAN, and DHCP. The main content area is titled 'Wireless Settings' and includes a sub-header 'These are the wireless settings for the AP(Access Point) portion.' The settings are as follows:

- Network ID(SSID): default
- Channel: 6
- Security: WEP
- WEP Encryption: 64 Bit
- Key Mode: HEX
- WEP Key 1: (selected with a radio button)
- Key 2: (radio button)
- Key 3: (radio button)
- Key 4: (radio button)

Below the keys, a note states: 'Input 10 HEX characters. (HEX is 0~9, A~F, or a~f)'. At the bottom right, there are three buttons: Apply (with a green checkmark icon), Cancel (with a red X icon), and Help (with a red plus icon).

Network ID(SSID)- Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **default**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

Channel- **6** is the default channel. All devices on the network must share the same channel. *(Note: The wireless adapters will automatically scan and match the wireless setting.)*

Security- Select None, WEP, 802.1X, WPA-PSK or WPA. None is the default setting. *(Note: if you enable encryption on the DI-524, please make sure that you also enable encryption on all the wireless clients, or wireless connection will not be established.)*

WEP Encryption- Select the level of encryption desired: 64-bit, or 128-bit

Key Mode- Select **HEX** or **ASCII**

Keys 1-4- Input up to 4 WEP keys; select the one you wish to use.

Using the Configuration Menu (continued)

Home > WAN > Dynamic IP Address

The screenshot shows the D-Link configuration interface for a DI-524 router. The left sidebar contains navigation buttons: Wizard, Wireless, WAN (highlighted in yellow), LAN, and DHCP. The main content area is titled 'WAN Settings' and 'Please select the appropriate option to connect to your ISP.' It features four radio button options: 'Dynamic IP Address' (selected), 'Static IP Address', 'PPPoE', and 'Others'. Each option has a brief description. Below these, the 'Dynamic IP Address' section includes input fields for 'Host Name' (optional), 'MAC Address' (with a 'Clone MAC Address' button), 'Primary DNS Address', 'Secondary DNS Address', 'MTU' (set to 1500), and 'Auto-reconnect' (set to Disabled). At the bottom right are 'Apply', 'Cancel', and 'Help' buttons.

Dynamic IP Address-

Choose Dynamic IP Address 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.

Host Name-

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.

MAC Address-

The default MAC Address is set to the WAN'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.

Clone MAC Address-

The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Primary/ Secondary DNS Address-

Enter a DNS Address if you do not wish to use the one provided by your ISP.

MTU-

Enter an MTU value only if required by your ISP. Otherwise, leave it at the default setting.

Auto-reconnect-

Select **Enabled** or **Disabled**.

Using the Configuration Menu (continued)

Home > WAN > Static IP Address

The screenshot shows the D-Link configuration interface for a DI-524 router. On the left is a sidebar with navigation buttons: Wizard, Wireless, WAN (highlighted in yellow), LAN, and DHCP. The main content area is titled 'WAN Settings' and 'Please select the appropriate option to connect to your ISP.' It features five radio buttons: Dynamic IP Address, Static IP Address (selected), PPPoE, and Others. To the right of these buttons are explanatory text blocks for each option. Below the radio buttons is a section titled 'Static IP Address' containing input fields for IP Address, Subnet Mask, ISP Gateway Address, Primary DNS Address, Secondary DNS Address, and MTU. At the bottom right are three buttons: Apply (with a green checkmark), Cancel (with a red X), and Help (with a red plus sign).

Static IP Address-

Choose Static IP Address if all WAN 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-

Input the public IP Address provided by your ISP

Subnet Mask-

Input your Subnet mask. (All devices in the network must have the same subnet mask.)

ISP

Gateway Address-

Input the public IP address of the ISP to which you are connecting

Primary

DNS Address-

Input the primary DNS (Domain Name Server) IP address provided by your ISP

Secondary

DNS Address-

This is optional

MTU-

Enter an MTU value only if required by your ISP. Otherwise, leave it at the default setting.

Using the Configuration Menu (continued)

Home > WAN > PPPoE



Please be sure to remove any existing PPPoE client software installed on your computers.

Choose PPPoE (Point to Point Protocol over Ethernet) 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. Select Dynamic PPPoE to obtain an IP address automatically for your PPPoE connection. Select Static PPPoE to use a static IP address for your PPPoE connection.

PPPoE-

Choose this option if your ISP uses PPPoE. (Most DSL users will select this option.)

Dynamic PPPoE- receive an IP Address automatically from your ISP.

Static PPPoE-you have an assigned (static) IP Address.

User Name-

Your PPPoE username provided by your ISP.

Retype Password-

Re-enter the PPPoE password

Service Name-

Enter the Service Name provided by your ISP (optional).

IP Address-

This option is only available for Static PPPoE. Enter the static IP Address for the PPPoE connection.

Primary DNS Address-

Primary DNS IP address provided by our ISP

Secondary DNS Address-

This option is only available for Static PPPoE. Enter the static IP Address for the PPPoE connection.

(Continued on the next page)

Using the Configuration Menu (continued)

Home > WAN > PPPoE *continued*

MTU-

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

Auto-reconnect-

If enabled, the DI-524 will automatically connect to your ISP after your system is restarted or if the PPPoE connection is dropped.

Home > LAN

The screenshot displays the D-Link configuration interface for the DI-524 router. The top header includes the D-Link logo and 'AirPlus G' branding. The main title is '802.11g/2.4GHz Wireless Router'. The navigation tabs at the top are 'Home', 'Advanced', 'Tools', 'Status', and 'Help'. On the left side, there is a vertical menu with buttons for 'Wizard', 'Wireless', 'WAN', 'LAN' (which is highlighted in yellow), and 'DHCP'. The main content area is titled 'LAN Settings' and contains the text 'The IP address of the DI-524.' Below this, there are three input fields: 'IP Address' with the value '192.168.0.1', 'Subnet Mask' with the value '255.255.255.0', and 'Domain Name' which is empty. At the bottom right of the form, there are three buttons: 'Apply' (with a green checkmark icon), 'Cancel' (with an orange X icon), and 'Help' (with a red plus icon).

LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DI-524. These settings may be referred to as Private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

IP Address-

The IP address of the LAN interface. The default IP address is: **192.168.0.1**

Subnet Mask-


The subnet mask of the LAN interface.
The default subnet mask is **255.255.255.0**


Local Domain-Name-

This field is optional. Enter in the local domain name.

Using the Configuration Menu (continued)

Home > DHCP


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DI-524

Wizard

Wireless

WAN

LAN

DHCP

AirPlus G

802.11g/2.4GHz Wireless Router

Home

Advanced

Tools

Status

Help

DHCP Server

The DI-524 can be setup as a DHCP Server to distribute IP addresses to the LAN network.

DHCP Server

☒ Enabled ☐ Disabled

Starting IP Address

192.168.0.100

Ending IP Address

192.168.0.199

Lease Time

1 WEEK

Static DHCP

Static DHCP is used to allow DHCP server to assign same IP to specific MAC address.

☐ Enabled ☐ Disabled

Name

IP Address




192.168.0.

MAC Address

DHCP Client

-- select one --

Clone

Apply Cancel Help

Static DHCP Clients List

| Name | IP Address | MAC Address |
|------|------------|-------------|
|------|------------|-------------|

Dynamic DHCP Clients List

| Host Name | IP Address | MAC Address | Expired Time |
|-----------|------------|-------------|--------------|
|-----------|------------|-------------|--------------|

DHCP stands for *Dynamic Host Control Protocol*. The DI-524 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 DI-524. 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.

DHCP Server-

Select **Enabled** or **Disabled**. The **default** setting is **Enabled**.

Starting IP Address-

The starting IP address for the DHCP server’s IP assignment

Ending IP Address-

The ending IP address for the DHCP server’s IP assignment

Lease Time-

The length of time for the IP lease. Enter the Lease time. The default setting is one hour

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Using the Configuration Menu (continued)

Advanced > Virtual Server

DI-524

Virtual Server

Application

Filter

Firewall

DDNS

DMZ

Performance

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802.11g/2.4GHz Wireless Router

Home

Advanced

Tools

Status

Help

Virtual Server

Virtual Server is used to allow Internet users access to LAN services.

☐ Enabled ☐ Disabled

Name

Private IP

Protocol Type

Private Port

Public Port

Schedule

☐ Always

☐ From

Time To

 day to

Virtual Server List

| Name | Private IP | Protocol | Schedule | |
|---|------------|---------------|----------|--|
| <input type="checkbox"/> Virtual Server FTP | 0.0.0.0 | TCP 21 / 21 | always | |
| <input type="checkbox"/> Virtual Server HTTP | 0.0.0.0 | TCP 80 / 80 | always | |
| <input type="checkbox"/> Virtual Server HTTPS | 0.0.0.0 | TCP 443 / 443 | always | |
| <input type="checkbox"/> Virtual Server DNS | 0.0.0.0 | UDP 53 / 53 | always | |

The DI-524 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 DI-524 firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DI-524 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 DI-524 redirects the external service request to the appropriate server within the LAN network.

The DI-524 is also capable of port-redirection meaning incoming traffic to a particular port may be redirected to a different port on the server computer.

Each virtual service that is created will be listed at the bottom of the screen in the Virtual Servers List. There are pre-defined virtual services already in the table. You may use them by enabling them and assigning the server IP to use that particular virtual service.

Using the Configuration Menu (continued)

Advanced > Virtual Server *continued*

| | |
|------------------------|---|
| Virtual Server- | Select Enabled or Disabled |
| Name- | Enter the name referencing the virtual service |
| Private IP- | The server computer in the LAN (Local Area Network) that will be providing the virtual services. |
| Protocol Type- | The protocol used for the virtual service |
| Private Port- | The port number of the service used by the Private IP com- |
| Public Port- | The port number on the WAN (Wide Area Network) side that will be used to access the virtual service. |
| Schedule- | The schedule of time when the virtual service will be enabled. The schedule may be set to Always , which will allow the particular service to always be enabled. If it is set to Time , select the time frame for the service to be enabled. If the system time is outside of the scheduled time, the service will be disabled. |

Example #1: If you have a Web server that you wanted Internet users to access at all times, you would need to enable it. Web (HTTP) server is on LAN (Local Area Network) computer 192.168.0.25. HTTP uses port 80, TCP.
Name: Web Server
Private IP: 192.168.0.25
Protocol Type: TCP
Private Port: 80
Public Port: 80
Schedule: always

Using the Configuration Menu (continued)

Advanced > Virtual Server *continued*

| Virtual Servers List | | | | |
|---|--------------|----------|----------|---|
| Name | Private IP | Protocol | Schedule | |
|  Virtual Server HTTP | 192.168.0.25 | TCP-8080 | always |  |



Click on this icon to edit the virtual service



Click on this icon to delete the virtual service

Example #2:

If you have an FTP server that you wanted Internet users to access by WAN port 2100 and only during the weekends, you would need to enable it as such. FTP server is on LAN computer 192.168.0.30. FTP uses port 21, TCP.

Name: FTP Server
Private IP: 192.168.0.30
Protocol Type: TCP
Private Port: 21
Public Port: 2100

Schedule: From: 01:00AM to 01:00AM, Sat to Sun

All Internet users who want to access this FTP Server must connect to it from port 2100. This is an example of port redirection and can be useful in cases where there are many of the same servers on the LAN network.

Using the Configuration Menu (continued)

Advanced > Applications

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802.11g/2.4GHz Wireless Router

DI-524

Virtual Server
Application
Filter
Firewall
DDNS
DMZ
Performance

Home Advanced Tools Status Help

Special Application
Special Application is used to run applications that require multiple connections.

☐ Enabled ☐ Disabled

Name:

Trigger Port: -

Trigger Type:

Public Ports:

Public Type:

☒ Apply ☐ Cancel ☐ Help

Special Application List

| Name | Trigger | Public Port | |
|--|---------|---|--|
| <input type="checkbox"/> Battle.net | 6112 | 6112 | |
| <input type="checkbox"/> Dialpad | 7175 | 51200-51201,51210 | |
| <input type="checkbox"/> ICU II | 2019 | 2000-2038,2050-2051,2069,2085,3010-3030 | |
| <input type="checkbox"/> MSN Gaming Zone | 47624 | 2300-2400,28800-29000 | |
| <input type="checkbox"/> PC-to-Phone | 12053 | 12120,12122,24150-24220 | |
| <input type="checkbox"/> Quick Time | 554 | 6970-6999 | |

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 DI-524. 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 public ports associated with the trigger port to open them for inbound traffic.

The DI-524 provides some predefined applications in the table on the bottom of the web page. Select the application you want to use and enable it.

Note! Only one PC can use each Special Application tunnel.

Name: This is the name referencing the special application.

Trigger Port: This is the port used to trigger the application. It can be either a single port or a range of ports.

Trigger Type: This is the protocol used to trigger the special application.

Public Port: This is the port number on the WAN 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.

Public Type: This is the protocol used for the special application.

Using the Configuration Menu (continued)

Advanced > Filters > IP Filters

The screenshot shows the D-Link DI-524 configuration interface. The top navigation bar includes 'Home', 'Advanced' (selected), 'Tools', 'Status', and 'Help'. The left sidebar contains buttons for 'Virtual Server', 'Application', 'Filter' (highlighted), 'Firewall', 'DDNS', 'DMZ', and 'Performance'. The main content area is titled '802.11g/2.4GHz Wireless Router' and 'Filter'. It explains that filters are used to allow or deny LAN users from accessing the Internet. Under 'Filter', there are radio buttons for 'IP Filters' (selected), 'URL Blocking', 'MAC Filters', and 'Domain Blocking'. The 'IP Filter' section explains that IP filters are used to deny LAN IP addresses access to the Internet. It includes options to 'Enabled' or 'Disabled' (selected), a field for 'IP Address' (empty), a field for 'Port Range' (empty), a 'Protocol' dropdown set to 'TCP', and a 'Schedule' section with 'Always' (selected) and 'From' options. The 'From' option shows a time range from 00:00 to 00:00 on Sunday. At the bottom right are 'Apply', 'Cancel', and 'Help' buttons. Below the configuration fields is an 'IP Filter List' table.

| | IP Range | Protocol | Schedule | |
|--------------------------|----------|-----------|----------|--|
| <input type="checkbox"/> | * | TCP 20-21 | always | |
| <input type="checkbox"/> | * | TCP 80 | always | |

Filters are used to deny or allow LAN (Local Area Network) computers from accessing the Internet. The DI-524 can be setup to deny internal computers by their IP or MAC addresses. The DI-524 can also block users from accessing restricted web sites.

IP Filters: IP Filter is used to deny LAN IP addresses from accessing the Internet. You can deny specific port numbers or all ports for the specific IP address.

IP Address: The IP address of the LAN computer that will be denied access to the Internet.

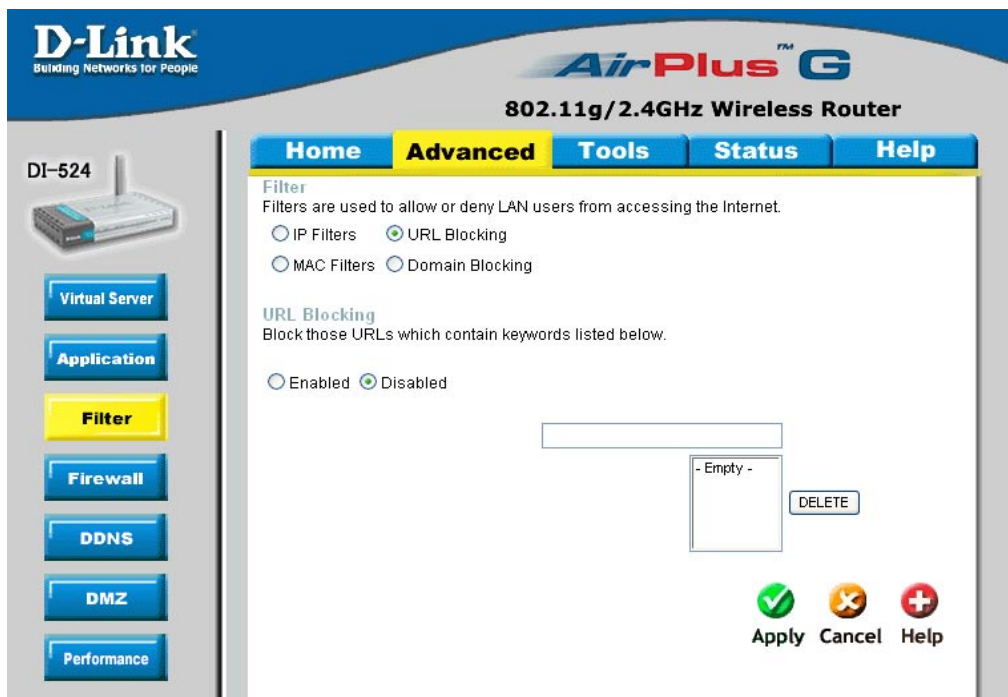
Port Range: The single port or port range that will be denied access to the Internet.

Protocol Type: Select the protocol type

Schedule: This is the schedule of time when the IP Filter will be enabled.

Using the Configuration Menu (continued)

Advanced > Filters > URL Blocking



URL Blocking is used to deny LAN computers from accessing specific web sites by the URL. A URL is a specially formatted text string that defines a location on the Internet. If any part of the URL contains the blocked word, the site will not be accessible and the web page will not display. To use this feature, enter the text string to be blocked and click **Apply**. The text to be blocked will appear in the list. To delete the text, just highlight it and click **Delete**.

Filters-

Select the filter you wish to use; in this case, **URL Blocking** was chosen.

URL Blocking-

Select **Enabled** or **Disabled**.

Keywords-

Enter the keywords in this field. Block URLs which contain keywords listed below.

Using the Configuration Menu (continued)

Advanced > Filters > MAC Filters

The screenshot shows the D-Link configuration interface for an AirPlus G 802.11g/2.4GHz Wireless Router. The left sidebar contains a list of configuration categories: Virtual Server, Application, Filter (highlighted in yellow), Firewall, DDNS, DMZ, and Performance. The main content area is titled '802.11g/2.4GHz Wireless Router' and has tabs for Home, Advanced (selected), Tools, Status, and Help. Under the 'Advanced' tab, the 'Filter' section is active, showing options for IP Filters, URL Blocking, MAC Filters (selected), and Domain Blocking. Below this, the 'MAC Filters' section is expanded, showing a description and three radio button options: 'Disabled MAC Filters' (selected), 'Only allow computers with MAC address listed below to access the network', and 'Only deny computers with MAC address listed below to access the network'. There are input fields for 'Name', 'MAC Address' (a five-segment field), and a 'DHCP Client' pull-down menu with a 'Clone' button. At the bottom right are 'Apply', 'Cancel', and 'Help' buttons. A 'MAC Filter List' table is partially visible at the bottom, with columns for 'Name' and 'MAC Address'.

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.

Filters-

Select the filter you wish to use; in this case, **MAC filters** was chosen.

MAC Filters-

Choose **Disable** MAC filters; **allow** MAC addresses listed below; or **deny** MAC addresses listed below.

Name-

Enter the name here.

MAC Address-

Enter the MAC Address.

DHCP Client-

Select a DHCP client from the pull-down list; click **Clone** to copy that MAC Address.

Using the Configuration Menu (continued)

Advanced > Filters > Domain Blocking

The screenshot shows the D-Link configuration interface for an AirPlus G 802.11g/2.4GHz Wireless Router. On the left is a sidebar with navigation buttons: Virtual Server, Application, Filter (highlighted in yellow), Firewall, DDNS, DMZ, and Performance. The main content area has tabs for Home, Advanced (selected), Tools, Status, and Help. Under the 'Filter' section, there are radio buttons for IP Filters, URL Blocking, MAC Filters, and Domain Blocking (which is selected). Below this, the 'Domain Blocking' section has a radio button for 'Disabled' (selected) and another for 'Allow users to access all domains except "Blocked Domains"'. The 'Blocked Domains' section contains a text input field, a dropdown menu showing '- Empty -', and a 'DELETE' button. Below this, the 'Permitted Domains' section also has a text input field, a dropdown menu showing '- Empty -', and a 'DELETE' button. At the bottom right are three buttons: Apply (with a green checkmark), Cancel (with a yellow X), and Help (with a red plus sign).

Domain Blocking is used to allow or deny LAN (Local Area Network) computers from accessing specific domains on the Internet. Domain blocking will deny all requests to a specific domain such as http and ftp. It can also allow computers to access specific sites and deny all other sites.

Filters-

Select the filter you wish to use; in this case, **Domain Blocking** was chosen.

Domain Blocking-

Disabled-

Select **Disabled** to disable **Domain Blocking**

Allow-

Allows users to access all domains except **Blocked Domains**

Deny-

Denies users access to all domains except **Permitted Domains**

Blocked Domains-


Enter the **Blocked Domains** in this field

Permitted Domains-

Enter the **Permitted Domains** in this field

Using the Configuration Menu (continued)

Advanced > Firewall


802.11g/2.4GHz Wireless Router

DI-524

Virtual Server

Application

Filter

Firewall

DDNS

DMZ

Performance

HomeAdvancedToolsStatusHelp

Firewall Rules

Firewall Rules can be used to allow or deny traffic from passing through the DI-524.

☐ Enabled ☐ Disabled

Name

Action ☐ Allow ☐ Deny

Interface

IP Start

IP End

Protocol

Port Range

Source

Destination

Schedule ☐ Always ☐ From

Time To

 day to

☒ ☐ ☐

ApplyCancelHelp

Firewall Rules List

| Action Name | Source | Destination | Protocol | |
|---|--------|-------------|----------|--|
| <input type="checkbox"/> Allow Allow to Ping WAN port | WAN,* | WAN,* | ICMP,8 | |
| <input type="checkbox"/> Deny Default | *,* | LAN,* | *,* | |
| <input type="checkbox"/> Allow Default | LAN,* | *,* | *,* | |

Firewall Rules is an advanced feature used to deny or allow traffic from passing through the DI-524. It works in the same way as IP Filters with additional settings. You can create more detailed access rules for the DI-524. When virtual services are created and enabled, it will also display in Firewall Rules. Firewall Rules contain all network firewall rules pertaining to IP (Internet Protocol).

In the Firewall Rules List at the bottom of the screen, the priorities of the rules are from top (highest priority) to bottom (lowest priority.)

Note:
The DI-524 MAC Address filtering rules have precedence over the Firewall Rules.

- Firewall Rules-

Enable or disable the Firewall
- Name-

Enter the name
- Action-

Allow or Deny
- Source-

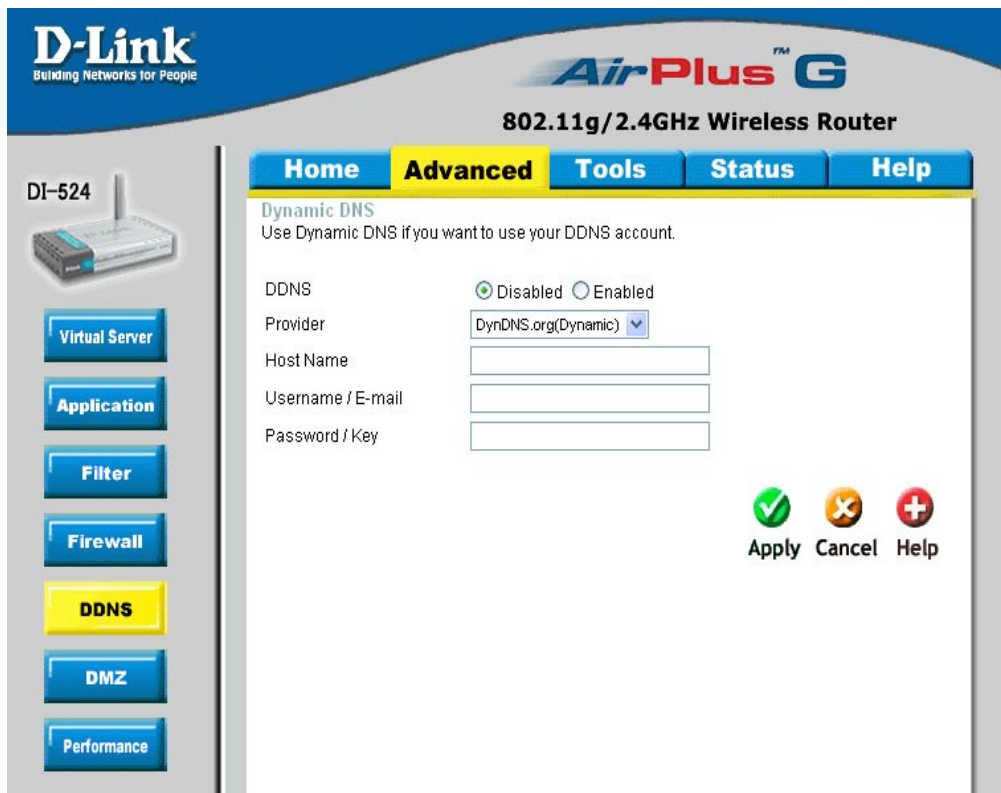
Enter the IP Address range
- Destination-

Enter the IP Address range; the Protocol; and the Port Range
- Schedule-

Select Always or enter the Time Range.

Using the Configuration Menu (continued)

Advanced > DDNS



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DI-524

Virtual Server
Application
Filter
Firewall
DDNS
DMZ
Performance

Home Advanced Tools Status Help

Dynamic DNS
Use Dynamic DNS if you want to use your DDNS account.




DDNS ☒ Disabled ☐ Enabled

Provider

Host Name

Username / E-mail

Password / Key

  
Apply Cancel Help

Users who have a Dynamic DDNS account may use this feature on the DI-524.

Provider-

Select from the list of DDNS servers available.

Host Name-

Enter your DDNS account host name.

Username/Email-

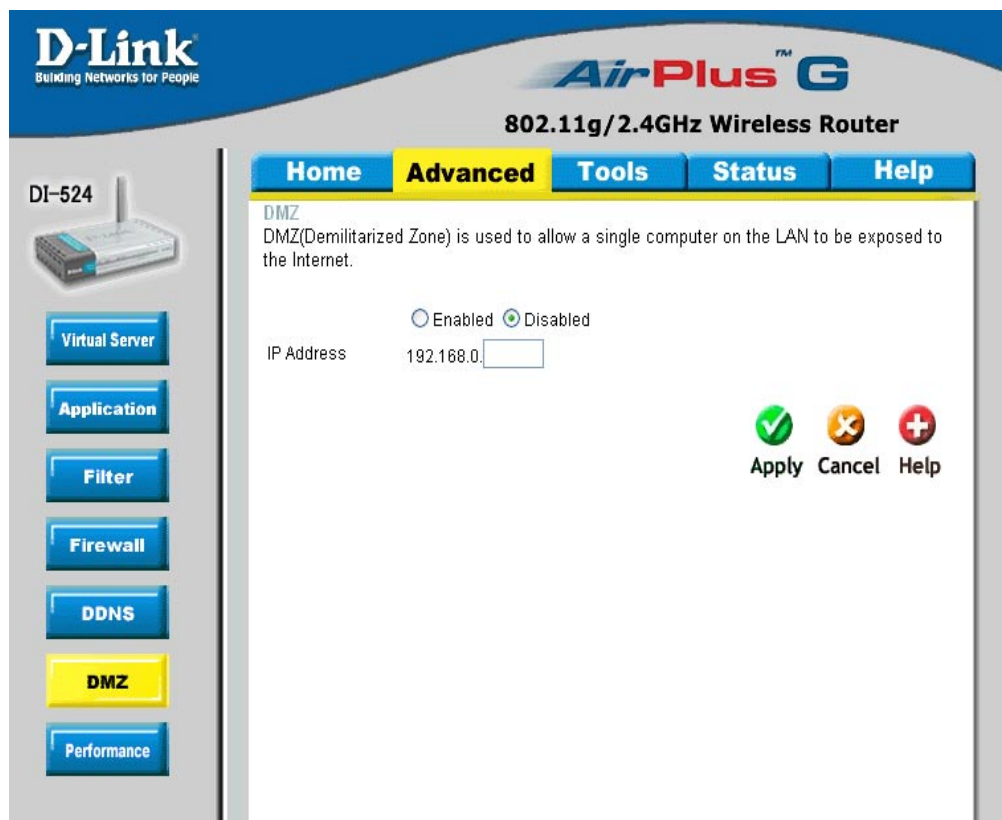
Enter your DDNS account username.

Password/Key-

Enter your DDNS account password.

Using the Configuration Menu (continued)

Advanced > DMZ



The screenshot shows the D-Link AirPlus G 802.11g/2.4GHz Wireless Router configuration interface. On the left, there is a sidebar with a router icon labeled 'DI-524' and a vertical menu of configuration options: Virtual Server, Application, Filter, Firewall, DDNS, **DMZ** (highlighted in yellow), and Performance. The main content area has a top navigation bar with tabs: Home, **Advanced** (highlighted in yellow), Tools, Status, and Help. Under the 'Advanced' tab, the 'DMZ' section is active. It contains the text: 'DMZ (Demilitarized Zone) is used to allow a single computer on the LAN to be exposed to the Internet.' Below this text are two radio buttons: 'Enabled' (unselected) and 'Disabled' (selected). Under the 'Disabled' radio button, there is a label 'IP Address' followed by the text '192.168.0.' and an empty input box. At the bottom right of the DMZ section, there are three buttons: 'Apply' (with a green checkmark icon), 'Cancel' (with a yellow 'X' icon), and 'Help' (with a red plus icon).

If you have a client PC that cannot run Internet applications properly from behind the DI-524, then you can set the client up for unrestricted Internet access. It allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the internal computer that will be the DMZ host. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so only use this option as a last resort.

DMZ-

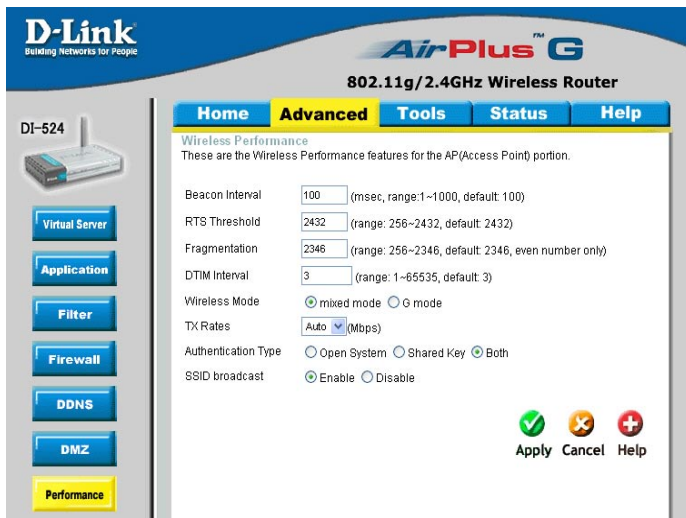
Enable or **Disable** the DMZ. The DMZ (Demilitarized Zone) allows a single computer to be exposed to the internet. By **default** the DMZ is **disabled**.

IP Address-

Enter the **IP Address** of the computer to be in the **DMZ**

Using the Configuration Menu (continued)

Advanced > Performance



Beacon Interval-

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 2432. If inconsistent data flow is a problem, only a minor modification should be made.

Fragmentation-

The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte setting will be fragmented before transmission. 2346 is the default setting.

DTIM Interval-

(Delivery Traffic Indication Message) **3** is the default setting. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.

Wireless Mode-

Select **Short** or **Long Preamble**. The Preamble defines the length of the CRC block (Cyclic Redundancy Check is a common technique for detecting data transmission errors) for communication between the wireless router and the roaming wireless network adapters. *Note: High network traffic areas should use the shorter preamble type.*

TX Rates-

Auto is the default selection. Select from the drop down menu.

SSID Broadcast-

Choose **Enabled** to broadcast the SSID across the network. All devices on a network must share the same SSID (Service Set Identifier) to establish communication. Choose **Disabled** if you do not wish to broadcast the SSID over the network.

Using the Configuration Menu (continued)

Tools> Admin

The screenshot shows the D-Link configuration interface for a DI-524 router. The top navigation bar includes 'Home', 'Advanced', 'Tools' (selected), 'Status', and 'Help'. The main content area is titled 'Administrator Settings' and contains two sections: 'Administrator (The Login Name is "admin")' and 'User (The Login name is "user")'. Each section has fields for 'New Password' and 'Reconfirm Password'. Below these is the 'Remote Management' section, which includes a radio button to enable or disable remote access, and fields for 'IP Address' and 'Port'. At the bottom right are 'Apply', 'Cancel', and 'Help' buttons.

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AirPlus G
802.11g/2.4GHz Wireless Router

DI-524

Admin
Time
System
Firmware
Misc

Home **Advanced** **Tools** **Status** **Help**

Administrator Settings
Administrators can change their login password.

Administrator (The Login Name is "admin")
New Password: [password field]
Reconfirm Password: [password field]

User (The Login name is "user")
New Password: [password field]
Reconfirm Password: [password field]

Remote Management
Let administrator perform administration task from remote host.

☐ Enabled ☒ Disabled
IP Address: [0.0.0.0]
Port: [8080]

Apply **Cancel** **Help**

At this page, the DI-524 administrator can change the system password. There are two accounts that can access the Broadband Router's Web-Management interface. They are admin and user. Admin has read/write access while user has read-only access. User can only view the settings but cannot make any changes.

Administrator- **admin** is the **Administrator login name**

Password- Enter the password and enter again to confirm

User- **user** is the **User login name**

Password- Enter the password and enter again to confirm

Remote Management- Remote management allows the DI-524 to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform **Administrator** tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host.

IP Address- The Internet IP address of the computer that has access to the Broadband Router. If you input an asterisk (*) into this field, then any computer will be able to access the Router. Putting an asterisk (*) into this field would present a security risk and is not recommended.


Port- The port number used to access the Broadband Router.

Example- <http://x.x.x.x:8080> where x.x.x.x is the WAN IP address of the Broadband Router and 8080 is the port used for the Web-Mangement interface.

Using the Configuration Menu (continued)

Tools > Time

DI-524



Admin

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D-Link

Building Networks for People

AirPlus G

802.11g/2.4GHz Wireless Router

Home

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Time

Set the DI-524 system time.

Device Time : Fri Aug 13 03:07:49 2004

☒ Enable NTP

Default NTP Server

(Optional)

Time Zone

(GMT-08:00)Pacific Time (US & Canada)

☐ Set Device Date and Time

Year: 2004 Month: Aug Day: 13

Hour: 00 Minute: 00 Second: 00

Daylight Saving

☐ Enable ☒ Disable

Start Jan 01 End Jan 01

✓

✗

+

Apply Cancel Help

Default NTP Server-

NTP is short for *Network Time Protocol*. NTP synchronizes computer clock times in a network of computers. This field is optional.

Time Zone-

Set Device Date and Time: To manually input the time. Enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second.

Set the Time-

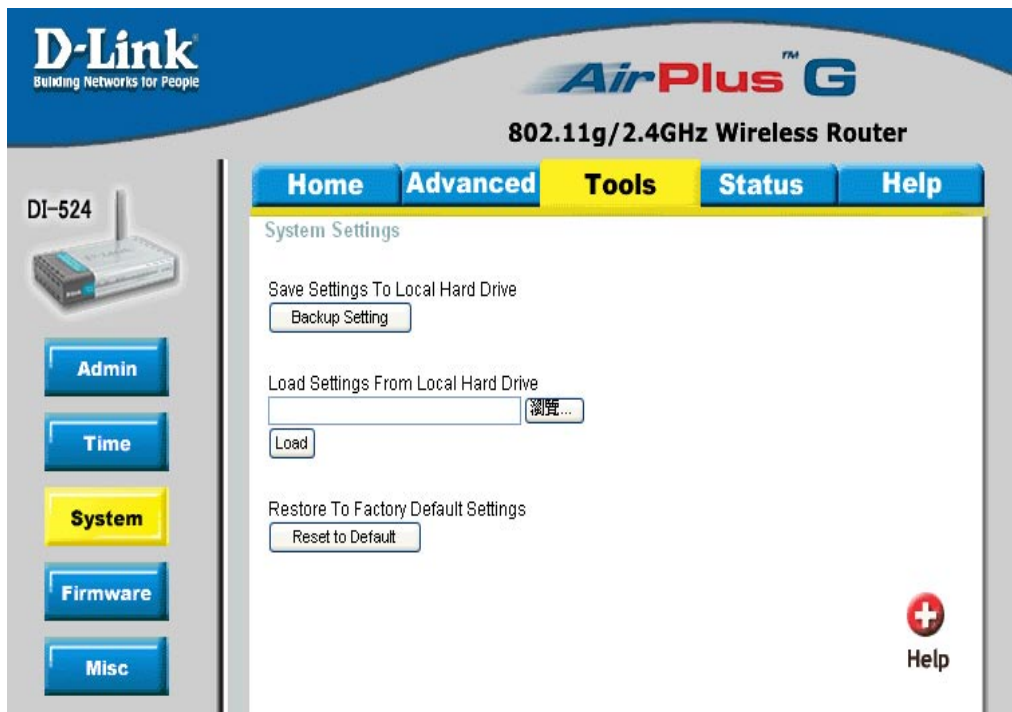
To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second. Click **Set Time**.

Daylight Saving-

To select Daylight Saving time manually, select **enabled** or **disabled**, and enter a start date and an end date for daylight saving time.

Using the Configuration Menu (continued)

Tools > System



The current system settings can be saved as a file onto the local hard drive. The saved file or any other saved setting file can be loaded back on the Broadband Router. To reload a system settings file, click on **Browse** to browse the local hard drive and locate the system file to be used. You may also reset the Broadband Router back to factory settings by clicking on **Restore**.

Save Settings to Local Hard Drive-

Click **Save** to save the current settings to the local Hard Drive

Load Settings from Local Hard Drive-

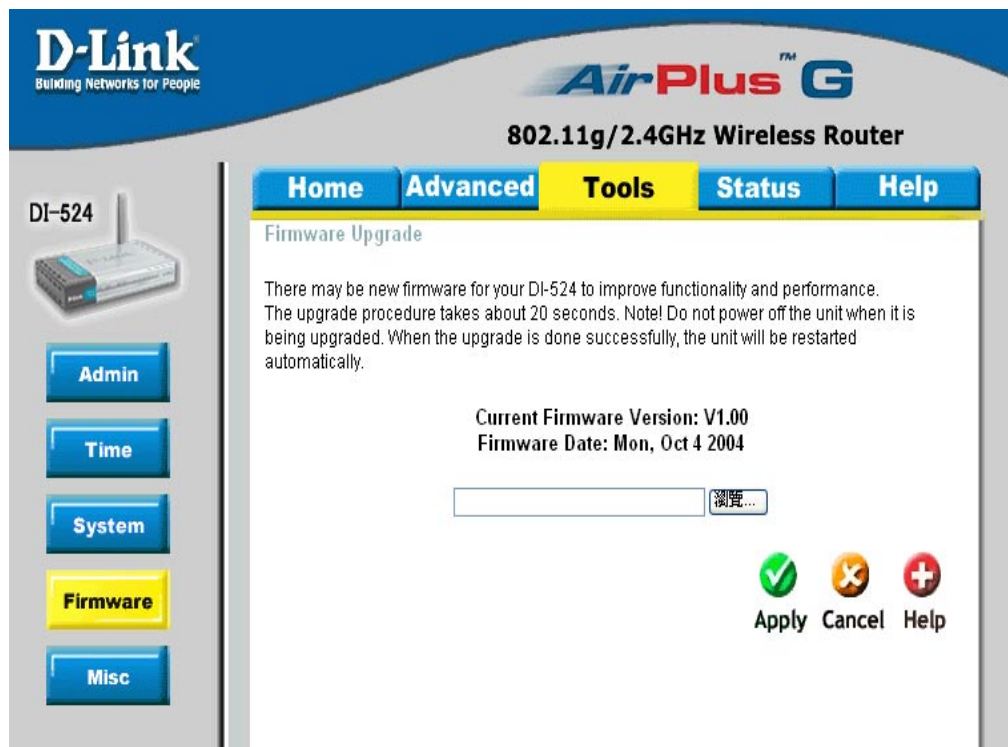
Click **Browse** to find the settings, then click **Load**

Restore to Factory Default Settings-

Click **Restore** to restore the factory default settings

Using the Configuration Menu (continued)

Tools > Firmware



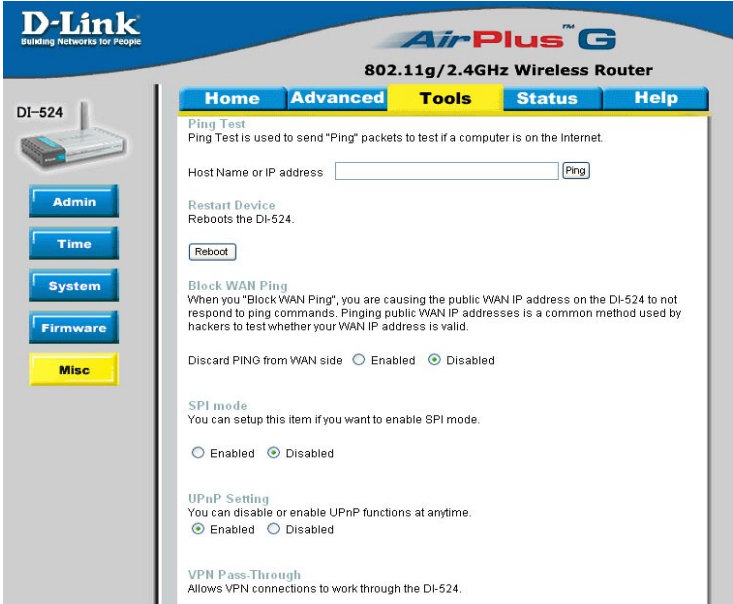
You can upgrade the firmware of the Router here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to browse the local hard drive and locate the firmware to be used for the update. Please check the D-Link support site for firmware updates at <http://support.dlink.com>. You can download firmware upgrades to your hard drive from the D-Link support site.

Firmware Upgrade- Click on the link in this screen to find out if there is an updated firmware; if so, download the new firmware to your hard

Browse- After you have downloaded the new firmware, click **Browse** in this window to locate the firmware update on your hard drive. Click **Apply** to complete the firmware upgrade.

Using the Configuration Menu (continued)

Tools > Misc



Ping Test-

The Ping Test is used to send Ping packets to test if a computer is on the Internet. Enter the IP Address that you wish to Ping, and click **Ping**

Restart Device-

Click **Reboot** to restart the DI-524

Block WAN Ping-

If you choose to block WAN Ping, the WAN IP Address of the DI-524 will not respond to pings. Blocking the Ping may provide some extra security from hackers.

Discard Ping from WAN side-

Click **Enabled** to block the WAN ping

UPNP-

To use the *Universal Plug and Play* feature click on **Enabled**. UPNP provides compatibility with networking equipment, software and peripherals of the over 400 vendors that cooperate in the Plug and Play forum.

VPN Pass Through-

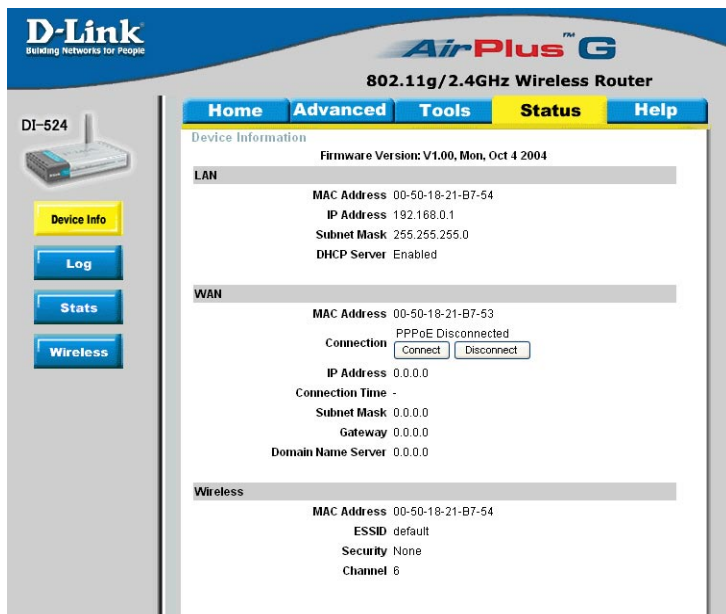
The DI-524 supports VPN (Virtual Private Network) pass-through for both PPTP (Point-to-Point Tunneling Protocol) and IPSec (IP Security). Once VPN pass-through is enabled, there is no need to open up virtual services. Multiple VPN connections can be made through the DI-524. This is useful when you have many VPN clients on the LAN network.

PPTP- select **Enabled** or **Disabled**

IPSec- select **Enabled** or **Disabled**

Using the Configuration Menu (continued)

Status > Device Info



This page displays the current information for the DI-524. It will display the LAN, WAN and MAC address information.

If your WAN connection is set up for a **Dynamic IP address** then a **Release** button and a **Renew** button will be displayed. Use *Release* to disconnect from your ISP and use *Renew* to connect to your ISP.

If your WAN connection is set up for **PPPoE**, a **Connect** button and a **Disconnect** button will be displayed. Use *Disconnect* to drop the PPPoE connection and use *Connect* to establish the PPPoE connection.

This window will show the DI-524's working status:

WAN

IP Address: WAN/Public IP Address
Subnet Mask: WAN/Public Subnet Mask
Gateway: WAN/Public Gateway IP Address
Domain Name Server: WAN/Public DNS IP Address
WAN Status: WAN Connection Status

LAN

IP Address: LAN/Private IP Address of the DI-524
Subnet Mask: LAN/Private Subnet Mask of the DI-524

Wireless

MAC Address: Displays the MAC address
SSID: Displays the current SSID
Channel: Displays the current channel
WEP: indicates whether WEP is enabled or disabled

Using the Configuration Menu (continued)

Status > Log

The screenshot shows the D-Link configuration interface for an AirPlus G 802.11g/2.4GHz Wireless Router. The top navigation bar includes tabs for Home, Advanced, Tools, Status (selected), and Help. On the left sidebar, there are buttons for Device Info, Log (highlighted in yellow), Stats, and Wireless. The main content area is titled 'View Log' and contains a description: 'View Log displays the activities occurring on the DI-524. Click on Log Settings for advance features.' Below this is a row of buttons: First Page, Last Page, Previous, Next, Clear, and Log Settings. A 'Help' icon with a red cross is also present. The log content shows 'Page 1/68' and 'WAN Type: PPP over Ethernet (V1.00)' with a display time of 'Fri Aug 13 03:31:02 2004'. The log entries are in Chinese and include timestamps and event descriptions such as 'DOD:triggered internally', 'PPPoE start to dial-up', and 'PADI sent'.

The Broadband Router keeps a running log of events and activities occurring on the Router. If the device is rebooted, the logs are automatically cleared. You may save the log files under Log Settings.

View Log-

First Page - The first page of the log

Last Page - The last page of the log

Previous - Moves back one log page

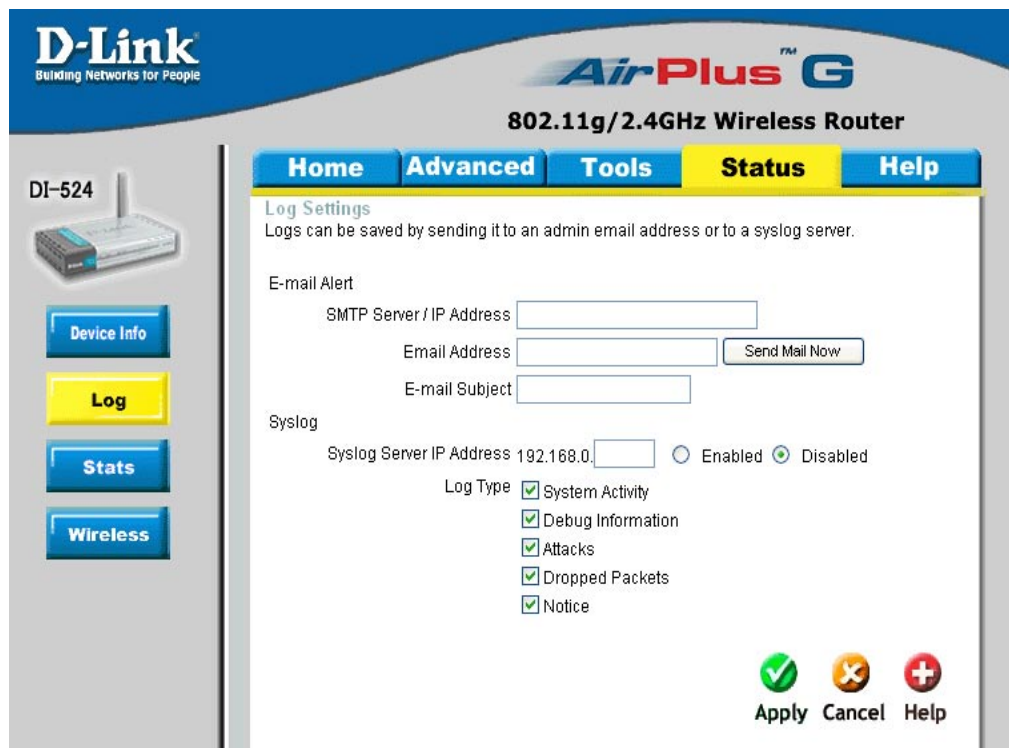
Next - Moves forward one log page

Clear - Clears the logs completely

Log Settings - Brings up the page to configure the log

Using the Configuration Menu (continued)

Status > Log > Log Settings



The screenshot shows the D-Link AirPlus G 802.11g/2.4GHz Wireless Router configuration interface. The top navigation bar includes tabs for Home, Advanced, Tools, Status, and Help. The left sidebar shows a device icon (DI-524) and buttons for Device Info, Log (highlighted), Stats, and Wireless. The main content area is titled 'Log Settings' and contains the following fields and options:

- Log Settings**
Logs can be saved by sending it to an admin email address or to a syslog server.
- E-mail Alert**
 - SMTP Server / IP Address:
 - Email Address:
 - E-mail Subject:
- Syslog**
 - Syslog Server IP Address: 192.168.0. ☐ Enabled ☒ Disabled
 - Log Type
 - ☒ System Activity
 - ☒ Debug Information
 - ☒ Attacks
 - ☒ Dropped Packets
 - ☒ Notice

At the bottom right, there are three buttons: Apply (green checkmark), Cancel (orange X), and Help (red plus).

Not only does the Broadband Router display the logs of activities and events, it can setup to send these logs to another location.

**SMTP Server/
IP Address -**

The address of the SMTP server that will be used to send the logs

Email Address -

The email address to which the logs will be sent.
Click on **Send Mail Now** to send the email.

Using the Configuration Menu (continued)

Status > Stats

The screenshot shows the D-Link configuration interface for an AirPlus G 802.11g/2.4GHz Wireless Router. The left sidebar contains a device image and navigation buttons: Device Info, Log, Stats (highlighted in yellow), and Wireless. The main content area has tabs for Home, Advanced, Tools, Status (highlighted in yellow), and Help. Under the Status tab, the 'Traffic Statistics' section displays packet counts for WAN, LAN, and Wireless interfaces, categorized by Receive and Transmit. A 'Refresh' button and a 'Reset' button are present. A red plus icon with the word 'Help' is also visible.

| | Receive | Transmit |
|----------|--------------|--------------|
| WAN | 0 Packets | 2037 Packets |
| LAN | 4091 Packets | 3509 Packets |
| Wireless | 0 Packets | 2037 Packets |

The screen above displays the Traffic Statistics. Here you can view the amount of packets that pass through the DI-524 on both the WAN and the LAN ports. The traffic counter will reset if the device is rebooted.

Status > Wireless

The screenshot shows the D-Link configuration interface for an AirPlus G 802.11g/2.4GHz Wireless Router. The left sidebar contains a device image and navigation buttons: Device Info, Log, Stats, and Wireless (highlighted in yellow). The main content area has tabs for Home, Advanced, Tools, Status (highlighted in yellow), and Help. Under the Status tab, the 'Connected Wireless Client List' section displays a table of connected wireless clients. A 'Refresh' button and a red plus icon with the word 'Help' are present.

| Connected Time | MAC Address |
|----------------|-------------|
|----------------|-------------|

The wireless client table displays a list of current connected wireless clients. This table also displays the connection time and MAC address of the connected wireless client.

Click on **Help** at any time, for more information.

Networking Basics

Using the Network Setup Wizard in Windows XP

In this section you will learn how to establish a network at home or work, using **Microsoft Windows XP**.

Note: Please refer to websites such as <http://www.homenethelp.com> and <http://www.microsoft.com/windows2000> for information about networking computers using Windows 2000, ME or 98.

Go to **Start>Control Panel>Network Connections**

Select **Set up a home or small office network**



When this screen appears, **Click Next**.

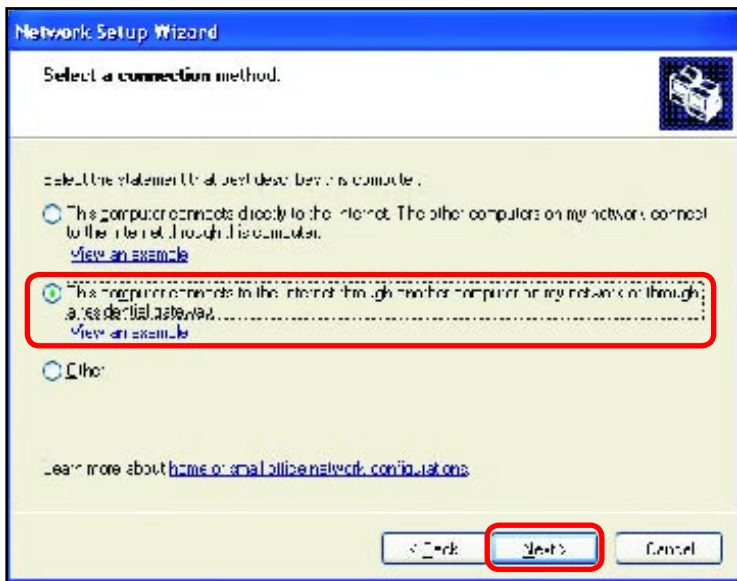
Networking Basics

Please follow all the instructions in this window:



Click **Next**

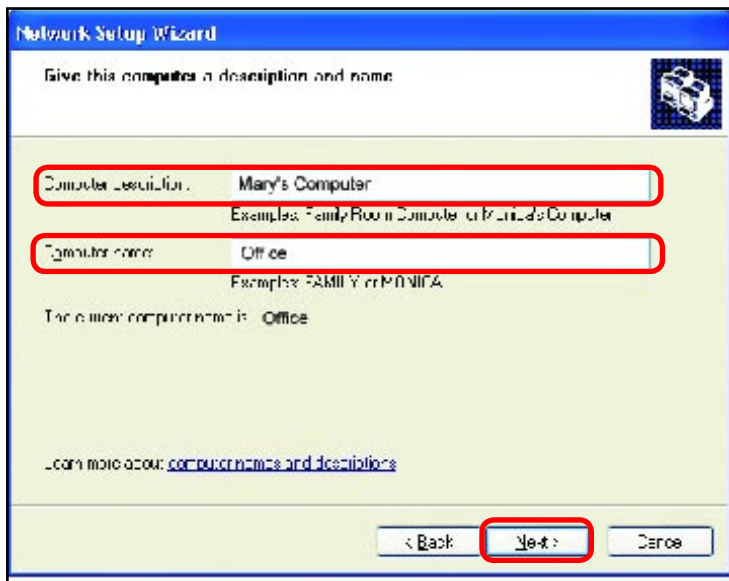
In the following window, select the best description of your computer. If your computer connects to the internet through a gateway/router, select the second option as shown.



Click **Next**

Networking Basics

Enter a **Computer description** and a **Computer name** (optional.)



The screenshot shows the 'Network Setup Wizard' window. The title bar says 'Network Setup Wizard'. The main heading is 'Give this computer a description and name'. There are two text input fields: 'Computer description' with the text 'Mary's Computer' and 'Computer name' with the text 'Office'. Below the 'Computer name' field, it says 'The chosen computer name is Office'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a red rectangle.

Network Setup Wizard

Give this computer a description and name

Computer description: Mary's Computer
Examples: Family Room Computer or Maria's Computer

Computer name: Office
Examples: FAMILY or MARIAS

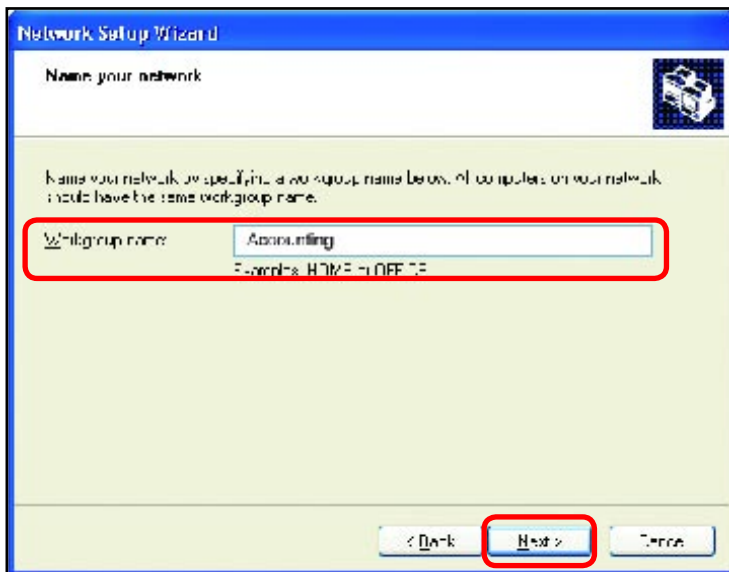
The chosen computer name is: Office

[Learn more about computer names and descriptions](#)

< Back Next > Cancel

Click **Next**

Enter a **Workgroup** name. All computers on your network should have the same **Workgroup** name.



The screenshot shows the 'Network Setup Wizard' window. The title bar says 'Network Setup Wizard'. The main heading is 'Name your network'. There is a text input field for 'Workgroup name' with the text 'Accounting'. Below the field, it says 'Examples: HOME or OFFICE'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a red rectangle.

Network Setup Wizard

Name your network

Name your network by specifying a workgroup name because all computers on your network should have the same workgroup name.

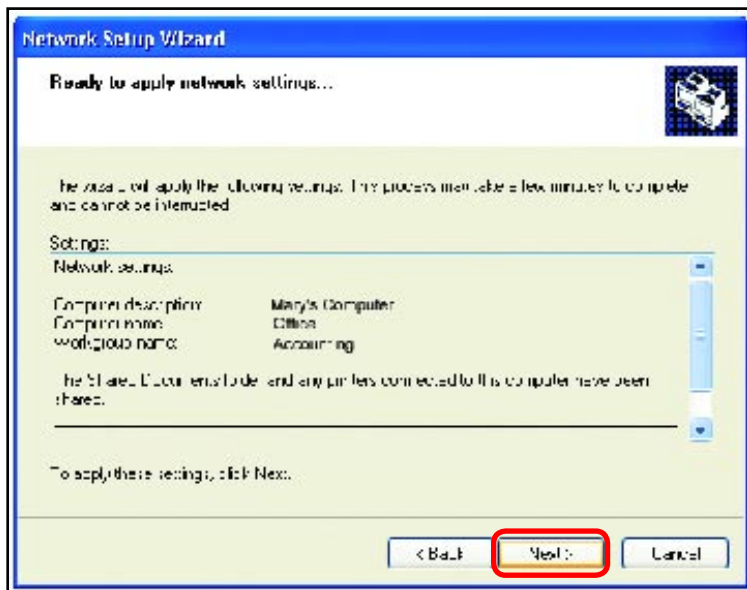
Workgroup name: Accounting
Examples: HOME or OFFICE

< Back Next > Cancel

Click **Next**

Networking Basics

Please wait while the **Network Setup Wizard** applies the changes.



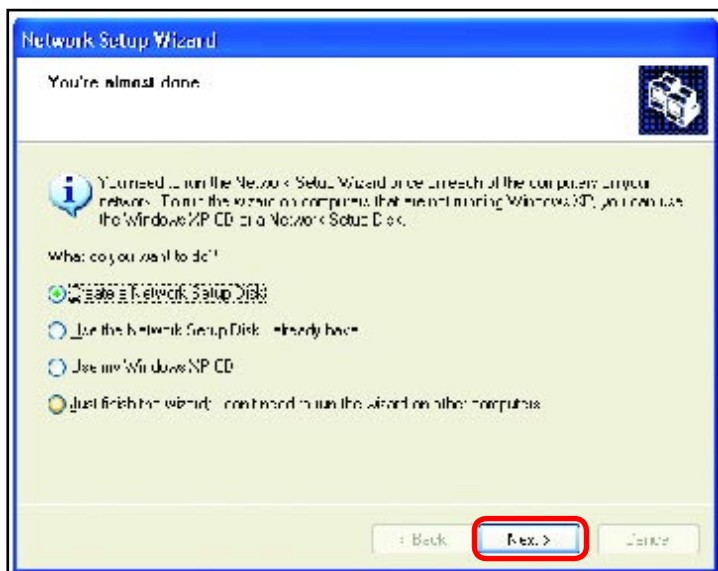
When the changes are complete, click **Next**.

Please wait while the **Network Setup Wizard** configures the computer. This may take a few minutes.

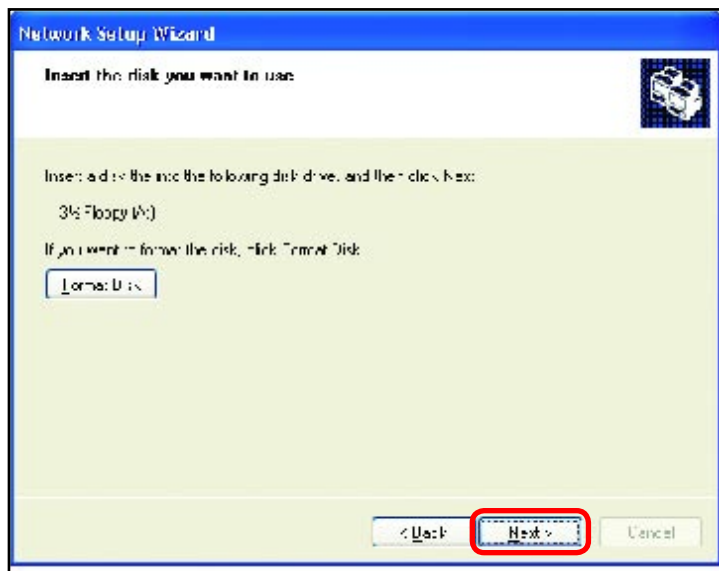


Networking Basics

In the window below, select the option that fits your needs. In this example, **Create a Network Setup Disk** has been selected. You will run this disk on each of the computers on your network. Click **Next**.



Insert a disk into the Floppy Disk Drive, in this case drive **A**.

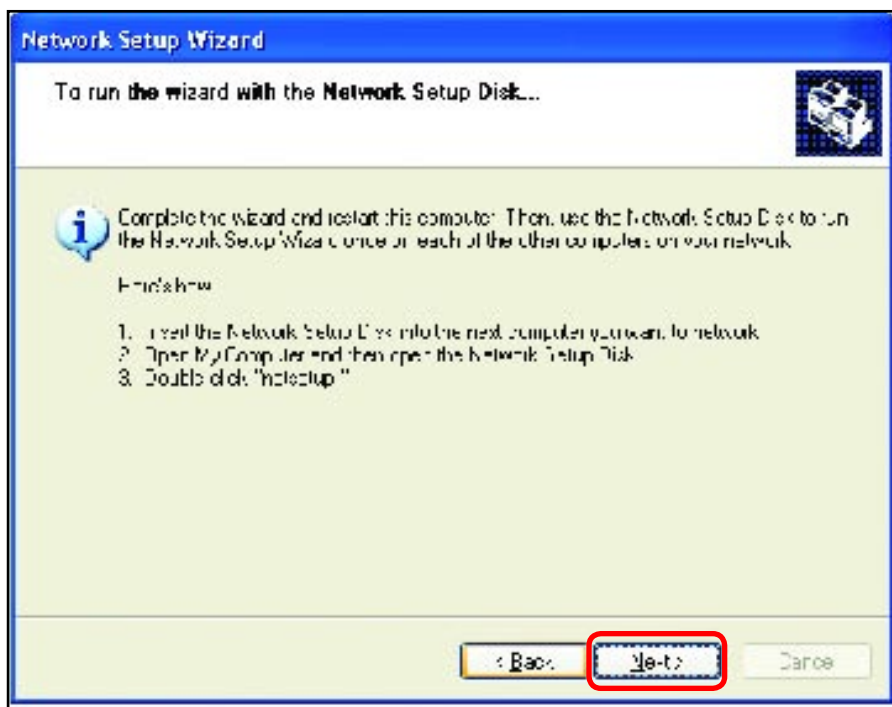


Click **Next**.

Networking Basics

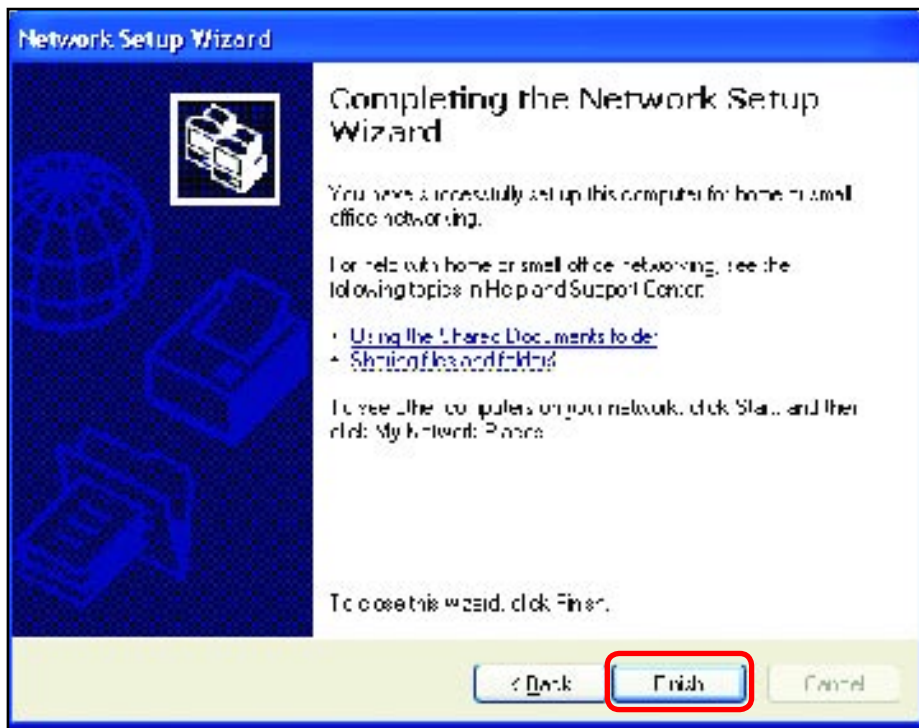


Please read the information under **Here's how** in the screen below. After you complete the **Network Setup Wizard** you will use the **Network Setup Disk** to run the **Network Setup Wizard** once on each of the computers on your network. To continue click **Next**.

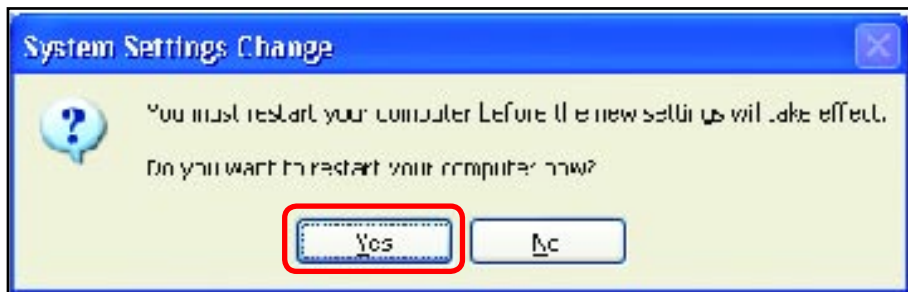


Networking Basics

Please read the information on this screen, then click **Finish** to complete the **Network Setup Wizard**.



The new settings will take effect when you restart the computer. Click **Yes** to restart the computer.



You have completed configuring this computer. Next, you will need to run the **Network Setup Disk** on all the other computers on your network. After running the **Network Setup Disk** on all your computers, your new wireless network will be ready to use.