

# D-Link®

## 2.4GHz Wireless Broadband Router



DI-624+

### AirPlus G+



## 802.11g High-Speed Wireless Cable/DSL Router With 4-Port Switch & Real Throughput 10X Faster

The DI-624+ AirPlusG+™ is a high-speed 2.4GHz 802.11g wireless broadband Router with a built-in 4-port Fast Ethernet Switch. It incorporates high-speed wireless LAN with speeds of up to 54Mbps. This router lets you quickly share DSL or cable modem Internet connection, with or without the network wires. With advanced functions traditionally found in business-class routers, this router gives your business a cost-effective way to install a secure and fast network with bottleneck-free link to the outside world.

### Simplified, Cost-saving Broadband Internet Connection

As the most basic function, the router allows you to share your broadband line and cable/DSL modem in your office or home. To let everybody logon, this device automatically creates and assigns an IP number for each user, simplifying every one's logon operation.

### Ready Connection

With built-in wireless LAN connections and 10/100Mbps switch, this router provides ready connection for workstations and servers, with or without the network wires. These built-in functions save you the cost and trouble of installing a separate wireless access point and Ethernet switch.

### Real Throughput 10 Times Faster Than 802.11b

When operating with other D-Link AirPlusG+ devices, the DI-624+ provides a real throughput 10 times faster than the standard 802.11b. This makes the DI-624+ ideal for home and business users implementing high-bandwidth applications such as audio and video streaming, on-line gaming, and for transferring large files over the wireless network.

When operating with other 802.11g devices, the DI-624+ supports data transfer rates of up to 54Mbps. The router provides seamless interoperability with all 802.11b and 802.11b+ wireless equipment.

With high data transfer rates and backward compatibility with other standards, the DI-624+ is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments in hardware.

### Firewall and VPN Protection

The router provides NAT protection for your office and home users from Internet intruders and hacker attacks. For telecommuters or anyone who needs to transmit sensitive information more securely, the router supports multiple concurrent VPN sessions IPsec, L2TP and PPTP pass-through. The router also blocks and re-directs certain ports to limit the services that outside users can access your network. Virtual Server Mapping is used to re-task services to

multiple servers. The router can be set to allow separate FTP, Web, and Multiplayer game servers to share the same Internet-visible IP address while still protecting your servers and workstations from hackers.

### DMZ Host to Open Public Domain

You can configure any of the built-in LAN ports to function as a DMZ port. A DMZ setting can be applied to a single client (such as a Web server) behind the router to fully expose it to the Internet and ensure complete Internet application compatibility even if the specific port is not known. This allows you to set up web sites and e-commerce business from your office while maintaining protection for the rest of your office LAN.

### Access Control

Access to the router from your home/office can be set based on users' MAC addresses and IP addresses. Parental control to filter certain URL and block web sites can be set through URL keywords and domain names. Outbound link scheduling can be made in conjunction with NTP. The router supports the Network Time Protocol (NTP), allowing you to install a time server behind the router to synchronize time for your network environment. This protects you from the risks inherent in obtaining Internet, minimizes security risks from the outside, and maximizes timing accuracy on your network.

### Enhanced Wireless Security

To protect transmitted data in the air, the router employs the enhanced 64/128/256-bit industry-standard WEP (Wired Equivalent Privacy) encryption protocol. WPA (Wi-Fi™ Protected Access) provides users a higher level of security for data and communications than has previously been available.

### UPnP Enabled for Compatibility

The router is designed for easy and robust connectivity among heterogeneous standards-based network devices. Computers can communicate directly with the router for automatic opening and closing of UDP/TCP ports to take full advantage of security provided without sacrificing functionality of on-line applications.

## Key Features

- 802.11g wireless LAN standard
- 54Mbps high-speed wireless broadband Internet access \*
- Real throughput 10 times faster than 802.11b devices \*\*
- PPPoE support for DSL saves ISP charge through dial-out connection-on-demand
- Built-in 4-port Fast Ethernet switch for ready server connection
- Detachable dipole antenna allows easy replacement
- Virtual Private Network (VPN) security for multiple telecommuters
- Enhanced 64/128/256-bit WEP data encryption for wireless users

- DHCP server for automatic user IP assignment
- Firewall protection with NAT, DMZ and Virtual Server Mapping support
- WPA security
- Parental control with URL filtering and domain blocking
- Network schedule control with Network Time Protocol support
- Easy web-based management from any browser

\* When used with other 802.11g devices

\*\* When used with AirPlusG+™ products

### Router

#### WAN Interface

- 10/100BASE-TX port
- Supports PPPoE for dial-out connection

#### LAN Interfaces

4 10/100BASE-TX ports

#### Memory

- SDRAM: 8MB
- Flash: 1MB

#### Routed Packet Type

IP packets

#### VPN Support

- IPSec pass-through
- L2TP pass-through
- PPTP pass-through

#### Internet Gateway Functions

- Network Address Translation (NAT)
- DHCP server (for automatic IP assignment)

#### PPP Authentication

PAP, CHAP, MS-CHAP

#### Firewall Features

- Access-list Control
- Stateful Packet Inspection (SPI)
- Domain Filtering
- URL Filtering
- Packet Filtering
- Ping of Death
- IP spoofing
- Intrusion Detection
- Network access rules
- Security event log

#### Number of DMZ Ports

1 port (user-assignable to any LAN port)

#### Number of Virtual Server Mappings

13 entries

#### IP Number Self-identification

Through DHCP client

#### Configuration & Management

- HTTP web-based configuration
- Network Time Protocol (NTP)

#### Firmware Upgrade

Web-based

### Built-in Wireless LAN

#### Add-on Hardware

PC Card Type II CardBus

#### Wireless LAN Standards

- 802.11b
- 802.11b+
- 802.11g

#### Data Rates

- 802.11g: up to 54Mbps (6/9/12/18/24/36/48/54Mbps)
- 802.11b+: up to 22Mbps
- 802.11b: up to 11Mbps (1/2/5.5/11Mbps)
- Auto-switch to select 802.11g or 802.11b mode
- Data rate auto fall-back under noisy environment or longer range distance

#### Transmission Technology

DSSS

#### RF Frequency Range

2.4 to 2.4835GHz

#### Frequency Stability

Within +/- 25ppm

#### Operating Channels

- 1 to 11 channels (North America)
- 1 to 13 channels (Europe)

#### Data Modulation Type

DBPSK, DQPSK, CCK, PBCC and OFDM (BPSK/QPSK/16-QAM/ 64-QAM)

#### Antennas

- 1 detachable external dipole antenna, 2dBi Gain (reverse SMA connector)
- 1 internal antenna, 2dBi Gain

#### Transmit Output Power

- 802.11g: 14dBm (typical)
- 802.11b: 16dBm (typical)

#### Receive Sensitivity (for 802.11b)

- (typically @PER < 8% packet size 1024 @ 25 °C +/- 5 °C)
- 22Mbps (PBCC): -80dBm
  - 11Mbps (PBCC): -85dBm
  - 11Mbps (CCK): -84 dBm
  - 5.5Mbps (CCK): -87 dBm
  - 2Mbps (QPSK): -90 dBm
  - 1Mbps (BPSK): -92 dBm

#### Receive Sensitivity (for 802.11g)

- (typically @PER < 8% packet size 1024 @ 25 °C +/- 5 °C)
- 54Mbps (OFDM): -71 dBm
  - 48Mbps (OFDM): -72 dBm
  - 36Mbps (OFDM): -77 dBm
  - 24Mbps (OFDM): -80 dBm
  - 12Mbps (OFDM): -86 dBm
  - 9Mbps (OFDM): -87 dBm
  - 6Mbps (OFDM): -89 dBm

#### Operating Range \*

- Indoors: 100 meters (328 feet)
- Outdoors: 400 meters (1,312 feet)

\* Environmental factors may adversely affect range

#### Wireless Data Security

- WEP 64/128/256-bit data encryption (user-selectable)
- 802.1x security (MD5 and TLS) (in Windows XP only)
- Wi-Fi Protected Access

### Built-in Fast Ethernet Switch Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation

#### Supported Functions

- Full/half duplex (per port)
- MDI/MDIX auto uplink (per port)

#### Transmission Method

Store-and-forward

#### MAC Address Learning

Automatic update

### Physical & Environmental Diagnostic LEDs

- Power
- Status
- WAN
- WLAN
- 1, 2, 3, 4 LAN ports

#### Power Input

- DC 5V +/- 5%, 2.5A
- Through external power adapter

#### Power Consumption

600 mA (max.)

#### Dimensions

192 x 117 x 31 mm (device only)

# DI-624+

## Technical Specifications

## 2.4GHz Wireless Broadband Router

### Weight

305 grams

### Operating Temperature

0° to 55 °C

### Storage Temperature

-20° to 65 °C

### Humidity

95% maximum non-condensing

### Regulation Compliance

- US: FCC Part 15 Class B, Sec. 15.247, 15.109

- Europe: ETS 300 328, ETS 300 826, EN60950 and CE-Mark

- Japan: VCCI, Telec/JATE



## Ordering Information

### 2.4GHz Wireless Router

**DI-624+** 1 10/100BASE-TX port (for DSL/cable modem connection)  
802.11g wireless LAN  
4 10/100BASE-TX switch ports

### Please specify your order as follows:

**BDI-624+** For USA  
**CDI-624+** For Canada  
**TDI-624+** For Taiwan  
**DI-624+/CN** For China  
**DI-624+/ANA** North America type power adapter, North America frequency  
**DI-624+/BEU** UK standard power adapter, EU frequency  
**DI-624+/EEU** EU standard power adapter, EU frequency  
**DI-624+/NEU** Australia standard adapter, EU frequency  
**DI-624+/ENA** EU standard power adapter, North America frequency



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<b>Canada</b>	TEL: 1-905-8295033	FAX: 1-905-8295223
<b>Europe (U. K.)</b>	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
<b>Germany</b>	TEL: 49-6196-77990	FAX: 49-6196-7799300
<b>France</b>	TEL: 33-1-30238688	FAX: 33-1-30238689
<b>Netherlands</b>	TEL: 31-10-282-1445	FAX: 31-10-282-1331
<b>Belgium</b>	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500
<b>Italy</b>	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723
<b>Sweden</b>	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
<b>Denmark</b>	TEL: 45-43-969040	FAX: 45-43-424347
<b>Norway</b>	TEL: 47-99-300-100	FAX: 47-22-309580
<b>Finland</b>	TEL: 358-9-2707 5080	FAX: 358-9-2707-5081
<b>Spain</b>	TEL: 34-93-4090770	FAX: 34-93-4910795
<b>Portugal</b>	TEL: 351-21-8688493	
<b>Czech Republic</b>	TEL: 420-(603)-276-589	
<b>Switzerland</b>	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01
<b>Greece</b>	TEL: 30-210-9914 512	FAX: 30-210-9916902
<b>Luxemburg</b>	TEL: 32-(0)2-517-7111	FAX: 32-(0)2-517-6500
<b>Poland</b>	TEL: 48-(0)-22-583-92-75	FAX: 48-(0)-22-583-92-76
<b>Hungary</b>	TEL: 36-(0)-1-461-30-00	FAX: 36-(0)-1-461-30-09
<b>Singapore</b>	TEL: 65-6774-6233	FAX: 65-6774-6322
<b>Australia</b>	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
<b>India</b>	TEL: 91-022-26526696	FAX: 91-022-26528914
<b>Middle East (Dubai)</b>	TEL: 971-4-3916480	FAX: 971-4-3908881
<b>Turkey</b>	TEL: 90-212-289-56-59	FAX: 90-212-289-76-06
<b>Egypt</b>	TEL: 202-414-4295	FAX: 202-415-6704
<b>Israel</b>	TEL: 972-9-9715700	FAX: 972-9-9715601
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<b>South Africa</b>	TEL: 27-12-665-2165	FAX: 27-12-665-2186
<b>Russia</b>	TEL: 7-095-744-0099	FAX: 7-095-744-0099 #350
<b>China</b>	TEL: 86-10-58635800	FAX: 86-10-58635799
<b>Taiwan</b>	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
<b>Headquarters</b>	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299