D-Link®

2.4GHz Wireless Broadband Router

AirPlus G+

DI-624+

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 Througput 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*

DI-624+

Technical Specifications

2.4GHz Wireless Broadband Router

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

Routing Protocol
RIP-1, RIP-2

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

RFC Support
> RFC 0768 - User Datagram Protocol
> RFC 0791 - Internet Protocol
> RFC 0792 - Internet Control Message Protocol
> RFC 0793 - Transmission Control Protocol
> RFC 0821 - Simple Mail Transfer Protocol
> RFC 0826 - Ethernet Address Resolution Protocol
> RFC 1058 - Routing Information Protocol
> RFC 1112 - IGMP v1 (for UPNP and IAPP functions)
> RFC 1332 - PPP Internet Control Protocol
> RFC 1350 - TFTP Protocol (Reversion 2)
> RFC 1514 - Dynamic Host Configuration Protocol
> RFC 1631 - IP Network Address Translator
> RFC 1661 - Point-to-Point Protocol (PPP)
> RFC 1723 - RIP-2 - Carrying Additional Information
> RFC 1945 - Hypertext Transfer Protocol HTTP/1.1 (subset)
> RFC 1994 - PPP Challenge Handshake Authentication Protocol (CHAP)
> RFC 2132 - DHCP Options and BOOTP vender Extensions
> RFC 2516 - PPP Over Ethernet (PPPoE)

IP Number Self-identification
Through DHCP client

Configuration & Management
- HTTP web-based configuration
- Network Time Protocol (NTP)

Firmware Upgrade
TFTP

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 ℃ +/- 5 ℃)
- 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 ℃ +/- 5 ℃)
- 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)

DI-624+

Technical Specifications

2.4GHz Wireless Broadband Router

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)

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

D-Link®

U.S.A	TEL: 1-714-885-6000	FAX: 1-866-743-4905
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Netherlands	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Belgium	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Norway	TEL: 47-22-309075	FAX: 47-22-309085
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-022-652-6696	FAX: 91-022-652-8914
Middle East (Dubai)	TEL: 9714-8834234	FAX: 9714-8834394
Turkey	TEL: 90-212-335-2553	FAX: 90-212-335-2500
Egypt	TEL: 202-414-4295	FAX: 202-415-6704
Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
Latinamerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-55039320	FAX: 55-11-55039321
South Africa	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
Russia	TEL: 7-095-744-0099	FAX: 7-095-744-0099#350
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299

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