



**AirPlus Xtreme G™**

Up to  
**15X**  
Faster

Total 802.11  
**Super G™**  
ATHEROS

**108**  
Mbps

**WiFi®**  
CERTIFIED

**b g**

DI-624

## 802.11g High Speed Wireless Cable/DSL Router With 4-Port Switch

The DI-624 AirPlus Xtreme G is a high-speed 2.4GHz 802.11g wireless broadband Internet Gateway Router with a built-in 4-port Fast Ethernet Switch. It incorporates high-speed wireless LAN with speeds of up to 108Mbps Turbo mode. This router lets you quickly and easily share DSL or cable modem Internet connection, with or without the network wires. With advanced functions traditionally found in business-class routers also built inside, this router gives the business and home 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.

### Up to 108Mbps Speed on 2.4GHz Frequency Band \*

With transmission speeds of up to 108Mbps (Turbo mode) on the popular 2.4GHz public frequency, the DI-624 is an ideal solution for bandwidth intensive WLAN applications. In a typical working environment with multiple users accessing the network at the same time, the DI-624 can operate at 15 times the throughput of the normal 802.11b wireless LAN equipment.

### Compatible With 802.11b

The DI-624's compatibility with earlier standard 802.11b wireless LAN equipment as well as third-party 802.11g wireless gears means that you do not need to change your existing network to maintain connectivity. This ensures a smooth upgrade to higher speeds while maintaining an ability to communicate with your existing equipment, providing a valuable protection for your previous investments in network hardware.

### Firewall and VPN Protection

The router provides NAT protection for your office and home users from Internet intruders and hacker attacks. For tele-commuters 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. ADMZ 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.

\* 108Mbps Turbo mode when operating with other AirPlus Xtreme G products.

**Wireless Security**

To protect transmitted data in the air, the router employs the enhanced 152-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.

**Features**

- 108Mbps Turbo mode high-speed wireless broadband Internet access
- Real throughput 15X faster than 802.11b
- PPPoE support for xDSL saves ISP charge through dial-out connection-on-demand
- Built-in 4-port Fast Ethernet switch for ready server connection
- Dual detachable dipole antennas allow easy replacement
- Virtual Private Network (VPN) security for multiple tele-commuters
- WPA network security
- 64/128/152-bit WEP data encryption for wireless users
- DHCP server for automatic user IP assignment
- Firewall protection with NAT, DMZ and Virtual Server Mapping support
- User access control through MAC/IP address filtering
- Parental control with URL filtering and domain blocking
- Network schedule control with Network Time Protocol support
- Easy web-based management from any browser

\* 108Mbps Turbo mode when operating with other AirPlusXtremeG products.

**Technical Specifications****Router****WAN Interface**

- RJ-45 10BASE-T/100BASE-TX port
- Supports PPPoE for dial-out connection

**LAN Interfaces**

- 802.11g wireless LAN (54 Mbps)
- 4 RJ-45 10BASE-T/100BASE-TX ports

**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)

**Number of DMZ Ports**

1 port (user-assignable to any LAN port)

**Number of Virtual Server Mappings**

10 entries

**IP Number Self-identification**

Through DHCP client

**Configuration & Management**

Web-based configuration

**Built-in Wireless LAN****Standards**

802.11g wireless LAN

**Media Access Control Protocol**

CSMA/CA with ACK

**Network Architecture Types**

Infrastructure mode

**Frequency Range**

2.4 - 2.4835 GHz

**Operating Channels**

- US (FCC): 11
- Europe (ETSI): 13
- Canada (D/C): 11

**Network Transfer Rate/Modulation Technique**

- 802.11b:
  - 11Mbps, 5.5Mbps: CCK
  - 2Mbps: DQPSK
  - 1Mbps: DBPSK
- 802.11g:
  - 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps: OFDM (Orthogonal Frequency Division Multiplexing)

**Receive Sensitivity (for 802.11b)**

- 1Mbps: -90dBm
- 2Mbps: -90dBm
- 5.5Mbps: -86dBm
- 11Mbps: -82dBm

**Receive Sensitivity (for 802.11g)**

- 6Mbps: -90dBm
- 9Mbps: -89dBm
- 12Mbps: -86dBm
- 18Mbps: -82dBm
- 24Mbps: -79dBm
- 36Mbps: -76dBm
- 48Mbps: -72dBm
- 54Mbps: -68dBm

**Transmit Output Power (for 802.11b)**

1Mbps, 2Mbps, 5.5Mbps, 11Mbps: 18dBm

**Transmit Output Power (for 802.11g)**

- 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps: 18dBm
- 48Mbps, 54Mbps: 17dBm

**Antenna**

2dBi Gain detachable antenna with reverse SMA connector

**Operation Range**

- Indoors: up to 100 meters (328 feet)\*
- Outdoors: up to 400 meters (1,312 feet)\*

\* Environmental factors may adversely affect range

**Security**

- 64/128/152-bit WEP data encryption
- WPA EAP, WPA PSK

**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
- WAN
- WLAN
- 1, 2, 3, 4 LAN ports

**Power Input**

- DC 5V 2.5A
- Through external AC power adapter

**Dimensions**

233 x 165 x 35 mm (9.25 x 6.5 x 1.38 inches)

**Weight**

907 grams (2.0 lb.)

**Operating Temperature**

0° - 55°C (32° - 131° F)

**Humidity**

95% maximum non-condensing

**EMI Certification**

- FCC Class B
- CE Class B

**Safety Certification**

- UL

**Ordering Information****Wireless Broadband Internet Gateway Router****DI-624**

- 1 RJ-45 0BASE-T/100BASE-TX port (for xDSL/cable modem connection)
- 802.11g wireless LAN
- 4 RJ-45 10BASE-T/100BASE-TX switch ports

Please specify one of the following after the model number:

<b>DI-624/ANA</b>	Includes US standard AC power adapter, North America frequency
<b>DI-624/BEU</b>	Includes U.K. standard AC power adapter, EU frequency
<b>DI-624/EEU</b>	Includes EU standard AC power adapter, EU frequency
<b>DI-624/CN</b>	Includes China standard AC power adapter, EU frequency
<b>DI-624/NEU</b>	Includes Australia standard AC power adapter, EU frequency
<b>DI-624/ENA</b>	Includes EU standard adapter, North America frequency
<b>DI-624/UNA</b>	Includes no AC power adapter, North America frequency
<b>DI-624/UEU</b>	Includes no AC power adapter, EU frequency

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