



Dualband

802.11a/g Tri-Mode Dualband Wireless Router With Built-in 4-Port Switch

The D-Link AirXpert DI-774 wireless router is a four-port, tri-mode, dualband device that provides the most expanded user bandwidth available in a router. Hundreds of wireless clients can connect to this router using any one of its non-overlapping channels to transfer data at speeds up to 5 times faster than previous wireless devices.

Dualband Operation

The DI-774 operates seamlessly and simultaneously in both the 2.4GHz and 5GHz frequency spectrums supporting the 802.11b and the newer, faster 802.11a and 802.11g wireless standards. For offices, schools or public hotspots that already use 802.11b devices, the DI-774 is a great way to expand an existing network that enables more users to communicate with one another, access data and the Internet. Now, you can have a router that compliments your existing network and protects the investment you made when you provide the convenience of wireless networking.

Fast Network Data Transfer

The DI-774 offers network data transfer rates of up to 54Mbps in either the 2.4GHz or 5GHz bands. So, now large data packets can travel from the router to a remote desktop or roaming laptop PC at up to 5 times the speed of previous wireless devices, enabling everyone to work faster and more efficiently or watch a streaming video smoothly.

Network Segmentation

Network administrators can partition the usage of the DI-774 by segmenting users on the wireless network by frequency band. Users who require special networking privilege access to sensitive company data, video conferencing, or connectivity to specific departments may use just the 802.11a channels, while other employees may just use the

802.11b and 802.11g channels. This type of user segmentation optimizes the router's performance and delivers the best network experience to each set of users.

Enhanced Security

The DI-774 is ideal for those who require additional management, firewall, and other network security features such as the 802.1x standard for wireless user authentication and WPA* (Wi-Fi™ Protected Access) which dynamically encrypts data as it's being sent. And because the DI-774 allows the pass-through of multiple, concurrent IPsec and PPTP VPN sessions, IT managers can deploy the DI-774 to their company's telecommuters and other remote employees who need to access sensitive information from a server or database or to communicate to a colleague confidentially. Filters on the router can be set to restrict access based on the specific MAC addresses of wireless laptop or desktop cards on the network, or restrict the access of IP addresses, specific web sites and/or web domain names. All of the router's settings are easily accessible in the operating system independent, Web-based software user interface that also features a step-by-step Setup Wizard to get the DI-774 up and running in just a matter of minutes.

Built-in 4-Port Switch

The DI-774 features an integrated 4-port switch allowing direct Ethernet connection to up to four computers for additional Internet or resource sharing at wire speeds.

Features

- 802.11a/g industry standard
- Dual 5GHz and 2.4GHz frequency bands
- Up to 54Mbps network data transfer rate on both frequency bands, 5 times faster than 802.11b
- Strong 64/128-bit WEP data encryption security
- Compatible with existing 802.11b wireless devices
- Advanced security with WPA, 802.1x authentication, TKIP and Pre-Shared Key function support
- Multi-user wireless broadband access
- Advanced firewall security with Stateful Packet Inspection (SPI), security event log
- User level control, domain filtering, URL blocking
- Powerful integrated antennas provide 100-meter indoor, 400-meter outdoor operation range
- Integrated 4-port Fast Ethernet switch
- Network Timing Protocol (NTP), UPnP support
- Easy-to-use web-based configuration/management
- Setup Wizard for quick installation

* WPA features available as a firmware upgrade download in the future.

Wireless LAN**Standards**

- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a

Wireless Data Rates

(With Automatic Fallback)

54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 11Mbps, 9Mbps, 6Mbps, 5.5Mbps, 2Mbps, 1Mbps

Media Access Control

CSMA/CA with ACK

Wireless Frequency Range (802.11b)

- 2412 to 2462 MHz (North America)
- 2412 to 2472 MHz (General Europe)
- 2412 to 2484 MHz (Japan)

Operation Channels (802.11b and 802.11g)

- 11 channels (North America)
- 13 channels (General Europe)

Wireless Frequency Range & Operation Channels (802.11a)

- 4 channels: 5.12 to 5.25 GHz for channel 36, 40, 44, 48
- 4 channels: 5.25 to 5.35 GHz for channel 52, 56, 60, 64
- 4 channels: 5.725 to 5.825 GHz for channel 149, 153, 157, 161
- Europe 5GHz wireless frequency : 5.15GHz to 5.875GHz *

* Software configurable as allowable frequency will vary from country to country in the European region

Dynamic Channel Selection

Auto-selecting the least utilized channel of operation

Modulation Technology

Direct Sequence Spread Spectrum (DSSS)

Modulation Scheme

- Orthogonal Frequency Division Multiplexing (OFDM)
- Complementary Code Keying (CCK)
- BPSK/QPSK/16-QAM/64-QAM

Antennas

- 1 embedded 2dBi Gain antenna for 2.4GHz frequency band
- 1 embedded 2dBi Gain antenna for 5GHz frequency band
- 1 external non-detachable dipole 2dBi Gain antenna for 2.4GHz frequency band
- 1 external non-detachable dipole 2dBi Gain antenna for 5GHz Frequency band

Operation Range

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

* Environmental factors may adversely affect range.

Receiver Sensitivity (802.11a and 802.11g)

(typically @PER < 8% packet size 1024 @ 25°C +/- 5°C)

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

Wireless Transmit Power Output

15dBm to 17dBm (typical)

Wireless LAN Security

- 64/128-bit WEP
- 802.1x
- WPA* Wi-Fi Protected Access (64/128-bit WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)
- Advanced Encryption Standard (AES)

* WPA and AES support in software will be available in future upgrade

LAN**Number of Ports**

4 10/100BASE-TX ports

Function Support

Auto MDI/MDIX for each port

Router, Security & Management**Standards & Protocols**

- TCP/IP v4, UDP, ICMP
- Management: HTTP, TFTP
- DHCP, NAT, DNS
- Routing: RIP v.1, RIP v.2
- Security: PAP, CHAP
- VPN pass through: L2TP, PPTP, IPSec

Network

- Automatic configuration to use DNS, NAT and Web services
- DHCP Server/Client, Static Router, PPoE, PPTP support
- VPN pass-through support for L2TP, PPTP, IPSec
- UPnP support

NAT/PAT

- Virtual DMZ host (1 entry)
- Virtual Server Mapping (10 entries)
- Shares single IP addresses/ISP account from the cable or DSL on local network

PPPoE Support

- Compatible with most cable and DSL ISP
- PPP connection on demand to save ISP connection fee

Router & Firewall Security

- Password Protect
- MAC Filtering
- SSID broadcast disable
- Access-list control and rules
- Stateful Packet Inspection (SPI)
- Domain Filtering
- URL Filtering
- Packet Filtering
- Ping of Death prevention
- IP spoofing
- Intrusion Detection
- Security event log

Configuration & Management

- Web-based configuration utility
- PC Utility supporting Windows 98SE, ME, 2000, XP
- TFTP for software upgrade available
- Status log
- Network Timing Protocol (NTP)

Diagnostic LEDs

- Power
- WAN
- LAN (10/100Mbps)
- WLAN (wireless connection): 802.11a, 802.11g

Physical & Environmental**Power Input**

- DC 5V, 3.0A
- Through external power adapter

Dimensions

233 mm (L) x 165 mm (W) x 35mm (H) (9.25 x 6.5 x 1.375 inches) (device only)

Weight

907 grams (2.0 lbs) (device only)

Operating Temperature

0° to 55 °C

Storage Temperature

-20° to 65 °C

DI-774

Technical Specifications

5GHz & 2.4GHz Wireless LAN

Humidity

5% to 95% (non-condensing)

Emission (EMI)

- FCC part 15 class B, Sec. 15.247, 15.109
- ETS 300 328, ETS 301 489-1&17, and CE mark
- EN 60950, EN 55022 Class B, EN 50082-1 1998



ACN 052 202 838

Ordering Information

DI-774 802.11a/g Wireless Router With Built-in 4-Port Switch

Please specify your order as follows:

BDI-774	For USA (USA packaging)
CDI-774	For Canada
TDI-774	For Taiwan
DI-774/CN	For China
DI-774/NAU	For Australia
DI-774/ESG	For Singapore
DI-774/ALA	For Latin America (with US standard power adapter)
DI-774/ELA	For Latin America (with EU standard power adapter)
DI-774/EFR	For France
DI-774/EEU	For Denmark, Germany, Iceland, Finland, Netherlands, Norway, Sweden, Poland, Slovenia, Luxembourg, South Africa
DI-774/BEU	For UK, Ireland



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Canada	TEL: 1-905-8295033	FAX: 1-905-8295095
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
Benelux	TEL: 31-10-2045740	FAX: 31-10-2045880
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: 91-22-652-6696	FAX: 91-22-652-8914
Egypt	TEL: 202-62-44615	FAX: 202-62-44583
UAE	TEL: 971-4-3916480	FAX: 971-4-3908881
Turkey	TEL: 90-212-335-2525	FAX: 90-212-335-2500
Israel	TEL: 972-9-9715700	FAX: 972-9-971-5601
Chile	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-3094-2910	FAX: 55-11-3094-2921
South Africa	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
Russia	TEL: 7-095-737-3389	FAX: 7-095-737-3390
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
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