



DI-604



Internet gateway with 4 10/100Mbps switchports (on the backside) and network security functions.

## Cable/DSL Router With Built-in 4-Port Switch

The DI-604 D-Link Express EtherNetwork is a broadband Internet Gateway Router with a built-in 4-port Fast Ethernet Switch. Designed for the small office and home, this router lets you quickly and easily share DSL or cable modem Internet connection. With advanced security functions, the DI-604 gives you 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

With the DI-604, you can share your broadband cable/DSL line with everybody in your office or home. This device automatically creates and assigns an IP number for each user, simplifying every one's logon operation. 4 built-in 10/100Mbps switch ports provide ready connection for workstations and servers, while saving you the cost and trouble of installing a separate Ethernet switch.

### Network Security

The DI-604 provides NAT protection for your office and home users from Internet intruders and hacker attacks, plus VPN pass-through for extra security. It 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 DI-604 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.

### Access Control

The DI-604 includes a group of filters you can configure to provide very basic content blocking. You can prevent local IP

addresses from accessing domains, IP addresses, MAC addresses, and URLs that you specify and you can even make the restrictions dependent on the time of day.

### 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 websites and e-commerce business from your office while maintaining protection for the rest of your office LAN. It also allows you to configure the DI-604 for applications that require multiple connections, such as Dialpad or MSN Gaming Zone.

### UPnP Enabled for Compatibility

The DI-604 is designed for easy and robust connectivity among heterogeneous standards-based network devices. Computers can communicate directly with the DI-604 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

- Cable/DSL modem Internet sharing
- Built-in 4-port Fast Ethernet switch
- WAN port supports dial-up mode to save ISP connection fee
- Virtual Private Network (VPN) pass-through support
- DMZ and Virtual Server Mapping support
- Access control and URL blocking capability
- Network Time Protocol support
- Web-based configuration setup
- SNMP agent & built-in MIBs for management on third-party platforms\*
- Sturdy, compact, wall-mountable case

\* Available in future release.

# DI-604

## Technical Specifications

## Broadband Router

### CPU

AMIT SOC

### WAN Interface

- RJ-45 10BASE-T/100BASE-TX port
- Supports DSL and cable modem connection
- Supports "Always-on" (bridged) and PPPoE for PPP connection on demand

### LAN Interface

4 RJ-45 10BASE-T/100BASE-TX ports

### Routed Packet Type

IP packets

### Routing Protocols & Methods

- RIP-1, RIP-2
- Static Routing
- Dynamic Routing

### VPN Support

IPSec pass-through

### Internet Gateway Functions

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

### Number of Virtual Server Mappings

10 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 1157 Simple Network Management Protocol
- RFC 1213 Management Information Base-II (MIB II)
- 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

- Web-based configuration
- SNMP agent with built-in MIB-II\*
- UPnP support

### Firmware Upgrade

Through TFTP

### Memory

- SDRAM: 4MBytes
- Flash: 256KBytes

### Security

PPP Authentication PAP, CHAP, MS-CHAP

### Firewall Features

- Access-list control
- Domain filtering
- URL filtering
- Packet filtering
- Ping of Death
- IP spoofing
- Intrusion detection
- Network access rules
- Log file of security events

### 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-II/MDI-X autoupLINK (per port)
- Autocorrection of twisted-pair Rx reverse polarity (per port)

### Flow Control

- IEEE 802.3x Flow Control in full-duplex
- Back pressure in half-duplex

### Transmission Method

Store-and-forward

### MAC Address Learning

Automatic update

### Physical & Environmental

#### Diagnostic LEDs

- Power/Status
- WAN (Link/Activity)
- 1, 2, 3, 4 LAN ports (Link/Activity)

#### Power Input

- DC 5V 2.0A
- Through external 100 - 240 VAC power adapter

#### Dimensions

142 x 108 x 31 mm (55.9 x 42.5 x 12.2 inches)

#### Weight

200 grams (1.44lb.)

#### Operating Temperature

0° - 55°C (32° - 131°F)

#### Humidity

95% maximum non-condensing

#### EMI Certification

- FCC Class B
- CE Class B
- C-Tick

#### Safety Certification

UL

\* Available in future release.



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## Ordering Information

### Broadband Internet Gateway

**DI-604** 1 RJ-45 10BASE-T/100BASE-TX port (for ADSL/cable modem connection)  
4 RJ-45 10BASE-T/100BASE-TX switch ports

Please specify one of the following after the model number:

|                  |  |
|------------------|--|
| <b>DI-604/A</b>  | Includes US standard AC power adapter        |
| <b>DI-604/B</b>  | Includes UK standard AC power adapter        |
| <b>DI-604/E</b>  | Includes EU standard AC power adapter        |
| <b>DI-604/CN</b> | Includes China standard AC power adapter     |
| <b>DI-604/N</b>  | Includes Australia standard AC power adapter |
| <b>DI-604/U</b>  | Includes no AC power adapter                 |

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|                     |                       |                       |
|---------------------|-----------------------|-----------------------|
| <b>U.S.A</b>        | TEL: 1-949-788-0805   | FAX: 1-949-753-7033   |
| <b>Canada</b>       | TEL: 1-905-8295033    | FAX: 1-905-8295095    |
| <b>Europe</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>Benelux</b>      | TEL: 31-10-2045740    | FAX: 31-10-2045880    |
| <b>Italy</b>        | TEL: 39-2-2900-0676   | FAX: 39-2-2900-1723   |
| <b>Iberia</b>       | TEL: 34-93-4090770    | FAX: 34-93-4910795    |
| <b>Sweden</b>       | TEL: 46-(0)8564-61900 | FAX: 46-(0)8564-61901 |
| <b>Norway</b>       | TEL: 47-22-309075     | FAX: 47-22-309085     |
| <b>Denmark</b>      | TEL: 45-43-969040     | FAX: 45-43-424347     |
| <b>Finland</b>      | TEL: 358-9-2707-5080  | FAX: 358-9-2707-5081  |
| <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>Japan</b>        | TEL: 81-3-5434-9678   | FAX: 81-3-5434-9868   |
| <b>China</b>        | TEL: 86-10-8518-2533  | FAX: 86-10-8518-2250  |
| <b>India</b>        | TEL: 91-22-652-6696   | FAX: 91-22-652-8914   |
| <b>Middle East</b>  | TEL: 9714-8834234     | FAX: 9714-8834394     |
| <b>Turkey</b>       | TEL: 90-212-335-2553  | FAX: 90-212-335-2500  |
| <b>Chile</b>        | TEL: 56-2-232-3185    | FAX: 56-2-232-0923    |
| <b>Brasil</b>       | TEL: 55-11-3094-2910  | FAX: 55-11-3094-2921  |
| <b>South Africa</b> | TEL: 27(0)1266-52165  | FAX: 27(0)1266-52186  |
| <b>Russia</b>       | TEL: 7-095-737-3389   | FAX: 7-095-737-3390   |
| <b>Taiwan</b>       | TEL: 886-2-2910-2626  | FAX: 886-2-2910-1515  |
| <b>D-Link Corp.</b> | TEL: 886-2-2916-1600  | FAX: 886-2-2914-6299  |



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Rev. 03 (Oct. 2003)