D-Link®

DSL-504G

DSL-504G IP Router/Broadband Internet Gateway with built-in
ADSL modem and 4 10/100Mbps Fast Ethernet switch ports.

ADSL Router With Built-in 4-Port Switch

The DSL-504G is an ADSL Internet Gateway Router designed for the small office and home. This router lets you quickly and easily connect to high-speed broadband Internet and share your ADSL line. With a built-in ADSL interface, 4 Fast Ethernet switch ports and advanced functions, this router gives your business and home a convenient and cost-effective way to install a secure, fast network with bottleneck-free link to the outside world.

Simplified, Cost-saving Broadband Internet Connection

With the DSL-504G, you can easily share your ADSL broadband line in your office or at home. To let everybody logon, this device automatically creates and assigns an IP number for each user, simplifying every one's logon operation.

Built-in ADSL Modem and Switch Ports

A standard-based ADSL modem is built into this router, making connection to the Internet a breeze. The router also incorporates a 4-port 10/100Mbps switch, providing ready connection for workstations and servers, while saving you the cost and trouble of installing a separate Ethernet switch.

Network Security

The DSL-504G 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 DSL-504G 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

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.

Key Features

- *High-speed Internet and regular phone service on the same phone line*
- *ADSL line Internet sharing*
- *Built-in ADSL interface with widest range of DSLAM interoperability (ANSI T1.413 issue 2, G.dmt Annex A, G.lite Annex A compliant)*
- *Built-in 4-port Fast Ethernet switch with IP multicast support*

- *NAT firewall protection*
- *DMZ and Virtual Server mapping support*
- *Web-based and Telnet configuration*
- *SNMP agent & built-in MIBs for management on third-party platforms*
- *Sturdy, compact, wall-mountable case*

DSL-504G (v.B)
Technical Specifications

Router

Device Ports
- 1 RJ-11 ADSL port
- 4 RJ-45 10BASE-T/100BASE-TX switch ports

Routed Packet Type
IP packets

Routing Protocols & Methods
- RIP-1, RIP-2
- Static Routing

VPN support
- PPTP/L2TP pass-through
- IPSec pass-through

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

Security
- PAP (PPP Authentication Protocol)
- CHAP (Challenge Handshake Authentication Protocol) with PPP

RFC Support
- RFC 0768 User Datagram Protocol
- RFC 0791 Internet Protocol
- RFC 0792 Internet Control Message Protocol
- RFC 0793 Transmission Control Protocol
- RFC 0826 Ethernet Address Resolution Protocol
- RFC 1058 Routing Information Protocol
- RFC 1157 Simple Network Management Protocol
- RFC 1213 Management Information Base-II (MIB II)
- RFC 1332 PPP Internet Control Protocol
- RFC 1350 TFTP Protocol (version 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 2516 PPP Over Ethernet (PPPoE)

DHCP Support
- DHCP Server
- DHCP Client
- DHCP Relay

Configuration & Management
- Web-based configuration
- Telnet configuration
- SNMP agent with built-in MIB-II
- Factory reset (through reset button)

Statistic Monitoring
Ethernet, ATM and ADSL statistics

Firmware Upgrade
Through TFTP and web browser

Built-in ADSL Modem

Standards
- ANSI T1.413 issue 2 (full rate DMT over analog POTS)
- ITU G.992.1 (G.dmt) Annex A
- ITU G.992.2 (G.lite) Annex A
- ITU G.994.1 (G.hs)

Data Rates
- G.dmt, downstream: up to 8 Mbps
- G.dmt, upstream: up to 1 Mbps
- G.lite, downstream: up to 1.5 Mbps
- G.lite, upstream: up to 512 Kbps

ATM
- UNI 3.1 and 4.0
- Precise ATM traffic shaping

Protocol Support
- Routed/bridged Ethernet over ATM
- Classical IP over ATM
- PPP over ATM
- PPP over Ethernet

Built-in Fast Ethernet Switch

Number of Ports
4 auto-sensing 10/100Mbps switch ports

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

Supported Function
Full/half duplex (per port)

Loop Prevention
IEEE 802.1D Spanning Tree Protocol compliant

IP Multicast
IGMP (Internet Group Membership Protocol) Proxy

Physical & Environmental

Diagnostic LEDs
- Power
- Status (system)
- ADSL Link/Act
- Ethernet Link/Act (per port)
- Ethernet 10Mbps/100Mbps (per port)

Power Input
- DC 7.5V 1.5A
- Through external AC power adapter

Dimensions
192 x 116 x 30 mm

Weight
295 grams

Operating Temperature
$0° - 40° C (32° - 131° F)$

Storage Temperature
$-20° - 70° C (-8° - 172° F)$

Operating Humidity
5 - 95% non-condensing

Emissions (EMI)
- FCC Class B
- CE Class B

Safety
CSA (CSA950, UL1950, IEC60950, En60950)

Ordering Information

ADSL Router With Built-in 4-Port Switch
DSL-504G (v.B)   1 RJ-11 ADSL port
4 RJ-45 10BASE-T/100BASE-TX switch ports

Please specify your order as follows:

DSL-504G/US v.B1	For US
DSL-504G/EU v.B1	For EU
DSL-504G/ME v.B1	For the Middle East
DSL-504G/UK v.B1	For UK
DSL-504G/AU v.B1	For Australia
DSL-504G/NZ v.B1	For New Zealand

To select the router with built-in ADSL modem that works best with your service provider, please consult your nearest D-Link representative or distributor/reseller.

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