D-Link®

xDSL

——— DSL-500

This remote router features 1 ADSL WAN port, 1 10BASE-T LAN port, IP routing, transparent bridging, NAT/DHCP Internet gateway functions and VPN.

ADSL Router for SOHO

The DSL-500 ADSL remote router connects a PC or LAN to an ADSL line through a 10BASE-T Ethernet interface and offers connectivity far superior to that of traditional analog modems or ISDN lines. Capable of data rates measured in megabits per second, the DSL-500 brings interactive video and high-speed Internet access and remote networking within easy reach of residential and SOHO users.

Up to 8Mbps Speed

The ADSL interface features G.dmt modulation for speeds of up to 8 Mbps downstream and 640 Kbps upstream. G.lite is also supported, allowing up to 1.5 Mbps downstream and 512 Kbps upstream. G.lite is sufficient for most Internet applications today, and has the advantage of not requiring the installation of a splitter at the subscriber end. The ADSL interface auto-senses the connection type and auto-negotiates the best modulation scheme, G.dmt or G.lite using the G.hs (handshake) protocol.

Uses Existing Telephone Line

The ADSL modem operates over the existing telephone wire and does not require new transmission media such as fiber-optic cabling. ADSL makes possible high-speed multimedia services, Internet access, video conferencing and remote networking for all connected computers.

No More Busy Signals

ADSL service, once installed, is always on. There is no need to dial the ISP or corporate LAN at the other end.

Maximum Utilization of Resources

Regular telephone service uses only a tiny portion of the actual capacity of a conventional telephone line, while ADSL uses the remaining bandwidth for high-speed data transfer. This is accomplished by setting different frequency channels for different functions, so that voice communication occurs at the lower end of the frequency spectrum, while data transmission takes place at higher frequencies.

IP Routing and VPN

The DSL-500 ADSL router supports IP packet routing over the WAN, in addition to transparent bridging. IP routing gives you the configuration capability to separate subnets and limit broadcast domains to improve traffic conditions over the WAN and increase security. Virtual Private Networking (VPN) secures communications over the Internet making it comparable to the security offered on private networks and leased lines.

NAT and DHCP Support

The router provides cost-saving Internet functions like NAT and DHCP. Network Address Translator (NAT) allows multiple LAN users to share a single ISP account. DHCP automatically assigns an IP address to each LAN user to simplify the logon operation.

Key Features

- *1 ADSL port (RJ-11), 1 10BASE-T Ethernet LAN port*
- *High performance 8Mbps high-speed G.dmt and G.lite support*
- *Auto-handshake for different ADSL flavors*
- *Bridged Ethernet over ATM, Classical IP over ATM,*
- *PPP over ATM*
- *Precise ATM traffic shaping*
- *VPN for data security over the Internet ***

- *IP routing*
- *Routing protocol support: RIP-1, RIP-2, Static Routing*
- *NAT, DHCP client/server support*
- *PAP/CHAP authentication, administrative passwords through Telnet*
- *Built-in MIBs for SNMP management*
- *Web-based GUI for easy installation and setup*

* VPN is an Optional feature

DSL-500
Technical Specifications

ADSL Router

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

Data Rates
- DMT full rate downstream: up to 8Mbps
- DMT full rate upstream: up to 640Kbps
- G.lite ADSL downstream: up to 1.5Mbps
- G.lite ADSL upstream: up to 512Kbps

ADSL Interface
1 RJ-11 connector for phone line connection

Security
- PAP, CHAP
- Simple firewall
- Administrative passwords through Telnet

Protocols
- Bridged Ethernet over ATM (RFC 1483)
- Classical IP over ATM (RFC 1577)
- PPP over ATM protocol (RFC 2364)
- PPP over Ethernet protocol (RFC 2516)

Signaling
- ATM signaling: UNI3.0, 3.1 and 4.0
- Precise ATM traffic shaping

Routing
IP Packet Routing
- TCP/IP with RIP-1 and RIP-2
- Static routing
- ICMP (RFC 791)
- UDP (RFC 792)

LAN
Standard
-IEEE 802.3 10BASE-T Ethernet standard

LAN Interface
- 1 RJ-45 connector for Ethernet connection

Others
Transparent Bridging
- IEEE 802.1d Spanning Tree protocol

Optional USB port

Internet Support
- Dynamic Host Configuration Protocol (DHCP) server, client
- Network Address Translation (NAT, RFC 1631)

LED Indicators
- Power
- Status
- ADSL: Link, Act
- Ethernet: Link, Act

Management
Embeded web server

Standard/MIB
- SNMP standard
- Built-in SNMP-based MIBs

Configuration
- Telnet supported
- Web-based GUI supported

Firmware Upgrade
TFTP supported

Console port
DB-9 RS-232 DCE x 1

Physical & Environmental
Power Input
Through external AC power adapter (provided)

Power Consumption
8 watts (max.)

Operating Temperature
$0° \sim 40°C$ $(32° \sim 104°F)$

Storage Temperature
$-25° \sim 55°C$ $(-13° \sim 131°F)$

Humidity
5% ~ 95% non-condensing

Dimensions
223.3 x 131.7 x 35mm (8.79 x 5.19 x 1.38 inches)

Weight
455 grams (1 lb)

Emissions (EMI)
- FCC Class B
- CE Class B
- C-Tick
- BSMI Class B

Safety
- UL/TUV

Telecom Certification
- FCC Part 68
- A-Tick

ACN 052 202 838

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Ordering Information

ADSL Router
DSL-500   1 ADSL port, 1 10BASE-T Ethernet port, IP routing, transparent bridging

Please specify one of the following after the model number:
/US   for USA and Canada
/EU   for EC countries and Singapore
/F   for Finland
/DE   for Germany
/UK   for United Kingdom
/B   for Belgium
/H   for Holland
/S   for Sweden
/D   for Denmark
/I   for Italy
/R   for Austria
/AU   for Australia

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	TEL	FAX
U.S.A.	TEL: 1-949-788-0805	FAX: 1-949-753-7033
Canada	TEL: 1-905-829-5033	FAX: 1-905-829-5095
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8235-5511
U.K.	TEL: 44-20-8731-5555	FAX: 44-20-8235-5511
Germany	TEL: 49-61- 96779900	FAX: 49-61-967799300
France	TEL: 33-1-30.23.86.88	FAX: 33-1-30.23.86.89
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723
Iberia	TEL: 34-93-4965751	FAX: 34-93-4965701
Sweden	TEL: 46-(0)8-564-61900	FAX: 46-(0)8-564-61901
Norway	TEL: 47-22-991890	FAX: 47-22-207039
Denmark	TEL: 45-43-96.90.40	FAX: 45-43-42.43.47
Finland	TEL: 358-9-622-91660	FAX: 358-9-622-91661
Singapore	TEL: 65-774-6233	FAX: 65-774-6322
Australia	TEL: 61-2-9417-7100	FAX: 61-2-9417-1077
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-88097777	FAX: 86-10-88096789
India	TEL: 91-22-652-6696	FAX: 91-22-652-8914
Middle East	TEL: 202-2456176	FAX: 202-2456192
South America	TEL: 56-2-232-3185	FAX: 56-2-232-0923
South Africa	TEL: 27(0)126652165	FAX: 27(0)126652186
Russia	TEL: 7-095-737-3389	FAX: 7-095-737-3390
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299