D-Link®
Building Networks for People

ADSL2/+ Router
With Firewall Protection/QoS Control

- **Share High-Speed ADSL2/+ Connection Among Group of Computers**
- **Additional USB Connection to PC**
- **DoS & SPI Firewall Protection**
- **QoS & SNMP Management Support**

FEATURES

Computer Interface
- 10/100BASE-TX Ethernet Port for LAN Connection
- USB Port for PC Connection

High-Speed ADSL Access
- ADSL: G.992.1 G.dmt, G.992.2 G.lite, ANSI T1.413 Issue 2 (Full Rate DMT Over Analog POTS) Annex A
- ADSL2: G.992.3 (G.dmt.bis) Annex A
- ADSL2+: G.992.5 Annex A
- G.994.1 G.hs Auto-Negotiation of Different ADSL Flavors

Firewall/Access Security
- DoS Attack Prevention
- Stateful Packet Inspection (SPI)
- IP/MAC-Based Packet Filtering
- Port-Based VLAN

QoS/Bandwidth Control
- Traffic Prioritization With 4 Priority Queues
- IGMP Snooping Multicast

Easy Setup/Flexible Management
- Dynamic Domain Name System (DDNS)
- Universal Plug and Play (UPnP) Compliant
- Quick Installation Wizard
- Web-Based GUI for Local/Remote Management
- SNMP Management

Remote Management
- TR-069 (optional)

The DSL-522T ADSL2/+ router is a versatile, high-speed remote router for home and the small office. With integrated ADSL2/2+ supporting up to 24Mbps download speed, firewall protection, Quality of Service (QoS), this router provides all the functions that a home or small office needs to establish a secure and high-speed remote link to the outside world.

High-Speed ADSL Connection. The DSL-522T features the latest ADSL2/+ standards, providing speeds of up to 24Mbps downstream and 1Mbps upstream (ADSL2+), or 12Mbps downstream and 1Mbps upstream (ADSL2). This router auto-senses the connection type and auto-negotiates the best modulation scheme, using the G.hs (handshake) protocol.

Shared Internet Access for Workgroup. The DSL-522T provides DHCP server for a group of home or small office users to simultaneously access the Internet. It provides an Ethernet port that can be connected to a single computer or an Ethernet switch for a group of users, plus a USB port that can connect to a USB interface of a computer.

Firewall Protection. The DSL-522T provides firewall security using Stateful Packet Inspection (SPI) and hacker attack logging for Denial of Service (DoS) attack protection. SPI inspects the contents of all incoming packet headers before deciding what packets are allowed to pass through. Access control is provided with packet filtering based on port and source/destination MAC/IP addresses. With Virtual Server Mapping, the router can be set to allow separate FTP, Web, and multiple games to share the same Internet-visible IP address while still protecting your servers and workstations from hackers. VPN pass-through is provided to let mobile users access files and mail from offices to work at home without having to use complex VPN client software.

Quality of Service Features. The DSL-522T supports priority queues to enable a group of home or office users to experience the benefit of smooth network connection of inbound and outbound data without concern of traffic congestion. This QoS support allows you to enjoy high ADSL transmission for applications such as VoIP, multimedia and on-line games over the Internet.

D-Link
Building Networks for People

Technical Specifications

Hardware

Interfaces
- 1 RJ-11 ADSL port
- 1 RJ-45 10/100BASE-TX Ethernet port with auto MDI/MDIX
- 1 USB 1.1 port
- Factory reset button

ADSL

Standards
- ADSL standards: ANSI T1.413 Issue 2, ITU G.992.1 (G.dmt) Annex A, ITU G.992.2 (G.lite) Annex A
- ADSL2 standards: ITU G.992.3 (G.dmt.bis) Annex A, ITU G.992.4 (G.lite.bis) Annex A
- ADSL2+ standard: ITU G.992.5 Annex A
- Auto-handshake: ITU G.994.1 (G.hs)

Data Rates
- G.dmt: 8Mbps downstream, 832Kbps upstream
- G.lite: 1.5Mbps downstream, 512Kbps upstream
- ADSL2: 12Mbps downstream, 1Mbps upstream
- ADSL2+: 24Mbps downstream, 1Mbps upstream

ATM & PPP Protocols
- ATM Adaptation Layer Type 5 (AAL5)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- Classical IP over ATM (RFC 1577)
- OAM F4/F5

Router

Network Protocols & Features
- NAT, Static Routing, RIP v.1, v.2
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server & DMZ
- SNTP, DNS relay and IGMP proxy

Firewall/Access Security
- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- DoS attacks prevention (IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN flooding)
- Packet filtering based on port, source IP address, destination IP address, MAC address (ICMP/TCP/UDP)

Virtual Private Network (VPN)
- PPTP/IPSec pass-through

Management/Configuration
- Quick installation wizard
- Web-based GUI for remote/local management
- Firmware upgrade, configuration data upload/download via Web-based GUI
- Telnet server for remote/local management
- Syslog monitoring
- SNMP v.1, v.2c support with built-in MIB-II (RFC 1213)
- DHCP server/client/relay

QoS Control
- LAN to WAN traffic prioritization/bandwidth management
- 802.1p traffic prioritization

Security/Bandwidth Management
- IGMP Snooping with 32 Multicast groups
- PVC/VLAN port mapping (4 VLANs)
- Bandwidth management based-on IP protocol, port number, MAC address

Physical & Environmental

Power Input
- Through 9VAC 1A external power adapter (without dying gasp)
- Through 12VAC 1.2A external power adapter (with dying gasp)

Power Consumption
- 9 watts (without dying gasp)
- 12 watts (with dying gasp)

Dimensions
142 x 117 x 31mm

Weight
202 grams (approximately)

Operating Temperature
0° to 40°C

Storage Temperature
-20° to 70°C

Operating Humidity
5% to 95% non-condensing

Emission (EMC/EMI)
- FCC Part 15 Class B
- CE (EN55022/EN55024/EN300 328/EN301 489)

Safety
- CSA
- LVD

D-Link Worldwide Offices

	TEL	FAX
U.S.A.	TEL: 1-800-326-1688	FAX: 1-866-743-4905
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223
Europe (U. K.)	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
Netherlands	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Belgium	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Norway	TEL: 47-99-300-100	FAX: 47-22-309580
Finland	TEL: 358-9-2707 5080	FAX: 358-9-2707-5081
Spain	TEL: 34-93-4090770	FAX: 34-93-4910795
Portugal	TEL: 351-21-8688493	
Czech Republic	TEL: 420-(603)-276-589	
Switzerland	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01
Greece	TEL: 30-210-9914 512	FAX: 30-210-9916902
Luxemburg	TEL: 32-(0)2-517-7111	FAX: 32-(0)2-517-6500
Poland	TEL: 48-(0)-22-583-92-75	FAX: 48-(0)-22-583-92-76
Hungary	TEL: 36-(0)-1-461-30-00	FAX: 36-(0)-1-461-30-09
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
India	TEL: 91-022-26526696	FAX: 91-022-26528914
Middle East (Dubai)	TEL: 971-4-3916480	FAX: 971-4-3908881
Turkey	TEL: 90-212-289-56-59	FAX: 90-212-289-76-06
Egypt	TEL: 202-414-4295	FAX: 202-415-6704
Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
LatinAmerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brazil	TEL: 55-11-218-59300	FAX: 55-11-218-59322
South Africa	TEL: 27-12-665-2165	FAX: 27-12-665-2186
Russia	TEL: 7-495-744-0099	FAX: 7-495-744-0099 #350
Japan	TEL: 81-3-5781-0963	FAX: 81-3-5781-0965
China	TEL: 86-10-58635800	FAX: 86-10-58635799
Taiwan	TEL: 886-2-6600-0123	FAX: 886-2-6600-8168
Headquarters	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898

DSL-522T

Rev. 01 (May. 2006)