



ADSL2+ ETHERNET ROUTER

HIGH-SPEED ADSL2+ INTERNET CONNECTION

Latest ADSL2+ standard provides Internet transmission of up to 24Mbps downstream, up to 2Mbps upstream

ALL-IN-ONE SINGLE BOX SOLUTION

Built-in ADSL modem, QoS and Firewall protection, all in one single palm-sized box

TOTAL COMPATIBILITY & EASE OF USE

Works with all major Internet Service Providers, simple installation



AFFORDABLE HIGH-SPEED CONNECTION FOR HOME & SMALL OFFICE

The D-Link DSL-2500U ADSL2+ Ethernet Router is an affordable high-performance ADSL device for home and the small office. With integrated ADSL2+/2+ supporting up to 24Mbps download speed, firewall protection and Quality of Service (QoS), this router provides all the essentials that a home or small office needs to establish a secure and high-speed remote link to the outside world.

FIREWALL PROTECTION & QoS

Security features prevent unauthorized access to the home and office network from Internet intruders. The router provides firewall security using Stateful Packet Inspection (SPI) and Denial of Service (DoS) attack protection. SPI inspects the contents of all incoming packet headers before deciding what packets are allowed to pass through. Router access control is provided with packet filtering based on port and source/destination MAC/IP addresses. For Quality of Service (QoS), the router supports multiple 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 users to enjoy high ADSL transmission for applications such as VoIP, streaming multimedia and on-line games over the Internet.

WHAT THIS PRODUCT DOES

This ADSL Ethernet router connects your computer to the Internet using an integrated high-speed ADSL2+ interface. It provides NAT and SPI firewall to protect your computer from Internet attacks, and QoS functions to prioritize traffic for smooth online games, streaming multimedia and voice communication over the Internet, as well as download of large files, photos, music and video. When needed, multiple computers at home and the office can also share the high-speed Internet line using the router's built-in DHCP server/NAT functions and an externally connected Ethernet switch.

GET HIGH-SPEED ADSL SPEED

Ready ADSL connection with up to 24Mbps downstream and 2Mbps upstream. Watch TV, listen to live music and broadcast on the Internet, play games and experience clear Internet phone calls. Now, smooth streaming multimedia and VoIP voice are possible at home and in the office through a simple connection to this router.



RJ-11 ADSL Port RJ-45 Ethernet LAN Port Power ON/OFF Switch Socket for Power Adapter

TECHNICAL SPECIFICATIONS

DEVICE INTERFACES

- RJ-11 ADSL port
- RJ-45 10/100BASE-TX Ethernet LAN port with auto MDI/MDIX
- Factory reset button

ADSL STANDARDS

- Full-rate ANSI T1.413 Issue 2
- ITU-T G.992.1 (G.dmt) Annex A
- ITU-T G.992.2 (G.lite) Annex A
- ITU-T G.994.1 (G.hs)

ADSL2 STANDARDS

- ITU-T G.992.3 (G.dmt.bis) Annex A/L/M
- ITU-T G.992.4 (G.lite.bis) Annex A

ADSL2+ STANDARD

- ITU-T G.992.5 Annex A/M

ATM/PPP PROTOCOLS

- Multiple protocol encapsulation over AAL5
- Bridged and routed Ethernet encapsulation
- Logical Link Control (LLC) encapsulation
- VC-based multiplexing
- MAC Encapsulated Routing
- ATM Forum UNI3.1/4.0 PVC Up to 8 PVCs
- Multiple services, PPPoE, bridge, MER over single PVC: optional
- ATM Cell Format ITU-T Rec. I.361
- ATM Adaptation Layer Type 5 (AAL5)
- ITU-T I.610 OAM Principles & Functions include F4/F5 loopback
- ATM QoS (Traffic Shaping) UBR, CBR, rt-VBR, nrt-VBR
- PPP over ATM
- PPP over Ethernet RFC 2516
- PPP Link Control Protocol (LCP)
- Internet Protocol Control Protocol (IPCP)
- PPP Authentication Protocol (PAP)
- PPP Challenge Handshake Authentication Protocol (CHAP)
- Microsoft PPP CHAP extensions

NETWORK PROTOCOLS

- Ethernet to ADSL Self-Learning Transparent Bridging
- Internet Control Message Protocol (ICMP)
- IP Static Routing
- Routing Information Protocol (RIP, RIPv2)
- Network Address Translation (NAT)
- Virtual Server, Port Forwarding
- NAT ALGs (optional): MSN/AOL/Yahoo Messenger, FTP, SNMP, CUSEEEME, Real Audio, MIRC, SIP, ICQ, games
- DHCP server/client/relay
- DNS Relay, DDNS
- IGMP proxy v.3 supported
- Simple Network Time Protocol (SNTP)

FIREWALL

- NAT firewall
- MAC Filtering
- Packet Filtering IP/ICMP/TCP/UDP
- URL Content Filtering (keyword filtering)
- Domain Blocking
- Stateful Packet Inspection (SPI)
- Denial of Service prevention (DoS)
- Intrusion Detection
- System/Log
- User Authentication PAP RFC 1334
- User Authentication CHAP RFC 1994
- DMZ

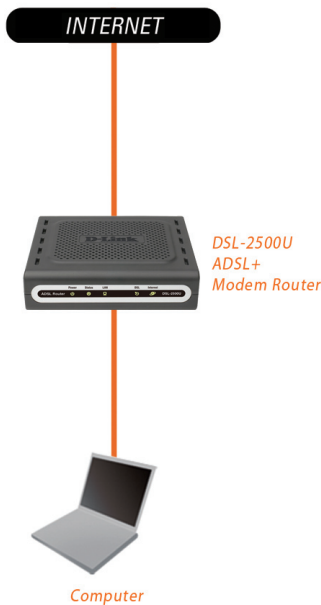
VPN

- IPsec/PPTP/L2TP pass-through

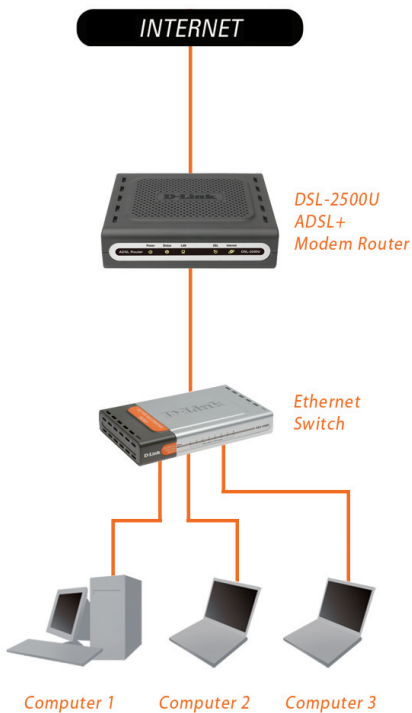
QOS

- Traffic Prioritization/Classification:
 - Port-based priority
 - 802.1p (8 queues)
 - Diffserv TOS
 - Application port-based priority
 - User-defined priority (TCP/UDP/ICMP)
 - 4 priority queues per PVC

YOUR COMPUTER INTERNET CONNECTION



YOUR HOME NETWORK SETUP



TECHNICAL SPECIFICATIONS

CONFIGURATION/MANAGEMENT

- Web-based GUI
- Web-based/TFTP firmware/configuration upgrade
- TFTP server/client
- Code Lock to prevent from improper firmware upgrade through UI, TFTP, TR-069
- Telnet/SSH access for configuration (optional)
- Local access via console (optional)
- UPnP IGD 1.0 (optional)
- ADSL/ADSL2/ADSL2+ manual selection and auto fallback
- Auto VPI/VCI detection
- Configuration backup and restore
- Diagnostics
- Log & Trace function
- SNMP v.1 and v.2c w/ MIB-I and MIB-II (optional)
- TR-069 compliant w/ ACS (optional)

DIAGNOSTIC LEDS

- Power
- Status
- DSL Link/Activity
- Ethernet Link/Activity

POWER SUPPLY

- 5VDC/1A switching power adapter
- Dying Gasp (optional)

DIMENSIONS

- 120 mm (L) x 105 mm (W) x 32 mm (H)

OPERATING TEMPERATURE

- 0° to 40° C (32° to 104° F)

STORAGE TEMPERATURE

- -20° to 70° C (-4° to 158° F)

HUMIDITY

- 5% to 95% non-condensing

EMC CERTIFICATION

- CE
- FCC CLASS B

TELECOM CERTIFICATION

- CE TBR-21
- FCC PART 68

SAFETY CERTIFICATION

- CSA INTERNATIONAL
- CE
- ROHS COMPLIANT



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