D-Link®

Power   Status   LAN   USB   DSL   Internet
ADSL Router   DSL-2520U

ADSL2+ ETHERNET/USB COMBO ROUTER

HIGH-SPEED ADSL2+ INTERNET CONNECTION

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

ALL-IN-ONE SINGLE BOX SOLUTION

Built-in ADSL modem, Ethernet and USB ports, 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 DSL-2520U ADSL2+ Combo Modem Router is an affordable high-performance ADSL device for home and small office environments. With integrated ADSL2/2+ supporting up to 24 Mbps 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 which 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 allow a group of home or office users to experience the benefit of a smooth network connection of inbound and outbound data without concern of traffic congestion. This QoS support lets users enjoy high ADSL transmissions for applications such as VoIP, streaming multimedia and online games over the Internet.

BROADBAND

### ADSL2+ ETHERNET/USB COMBO ROUTER
DSL-2520U

WHAT THIS PRODUCT DOES

This ADSL Combo Modem Router connects your computer to the Internet using an integrated high-speed ADSL2+ interface. It provides a NAT firewall and SPI to protect your computer from Internet attacks, and QoS functions to prioritize traffic for smooth online gaming, streaming multimedia and voice communication over the Internet, as well as downloading 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 your ADSL connection with up to 24 Mbps downstream and 2 Mbps upstream speeds. Watch TV, listen to live music and broadcasts on the Internet, play games and experience clear Internet phone calls. Now, smooth streaming multimedia and VoIP are possible at home and in the office through a simple connection to this router.

YOUR NETWORK SETUP

INTERNET

DSL-2520U
ADSL2+ Combo
Modem Router

Ethernet Cable   USB Cable

Computer   Computer
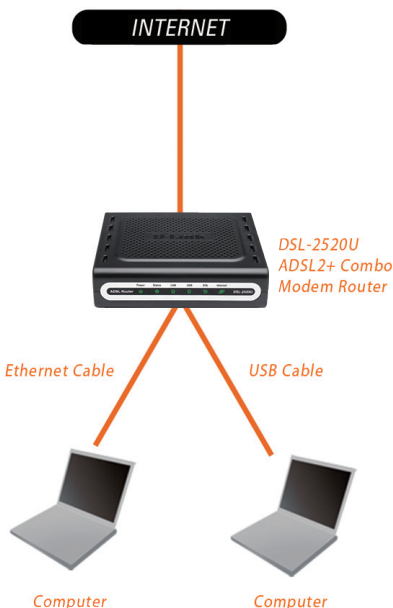
TECHNICAL SPECIFICATIONS

DEVICE INTERFACES
- RJ-11 ADSL port
- RJ-45 10/100BASE-TX Ethernet LAN port with auto MDI/MDIX
- USB 1.1 Port
- Factory reset button

ADSL STANDARS
- 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
- Annex M compatible: up to 2 Mbps upstream

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
- 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 RFC 2364
- PPP over Ethernet RFC 2516
- PPP Link Control Protocol (LCP) RFC 1661
- Internet Protocol Control Protocol (IPCP) RFC 1332
- PPP Authentication Protocol (PAP) RFC 1334
- PPP Challenge Handshake Authentication Protocol (CHAP) RFC 1994
- Microsoft PPP CHAP extensions RFC 2433

NETWORK PROTOCOLS
- Ethernet to ADSL Self-Learning Transparent Bridging
- Internet Control Message Protocol (ICMP) RFC 792
- IP Static Routing
- Network Address Translation (NAT) RFC 1631
- Virtual Server, Port Forwarding
- NAT ALGs (optional): MSN/AOL/Yahoo Messenger, FTP, SNMP, CUSEEME, Real Audio, MIRC, SIP, ICQ, games
- DHCP server/client/relay RFC 2131
- DNS Relay, DDNS
- IGMP proxy v.1 and v.2 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
- Diffserv TOS
- Application port-based priority
- User-defined priority (TCP/UDP/ICMP)
- 3 priority queues per PVC

TRAFFIC SHAPING
- PVC port mapping (bridge mode)
- IGMP snooping 32 multicast groups

CONFIGURATION/MANAGEMENT
- Web-based GUI
- Web-based/TFTP firmware/ configuration upgrade

- TFTP client
- Code Lock to prevent improper firmware upgrade through UI
- Telnet access for configuration (optional)
- Local access via console (optional)
- UPnP IGD 1.0 (optional)
- ADSL/ADSL2/ADSL2+ manual selection and auto fallback
- Configuration backup and restore
- Diagnostics
- Log & Trace function

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

POWER SUPPLY
- 5 VDC/1 A switching power adapter

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
- A-Tick

SAFETY CERTIFICATION
- CSA International
- CE
- RoHS compliant