

# netopia® SDSL DSU Family

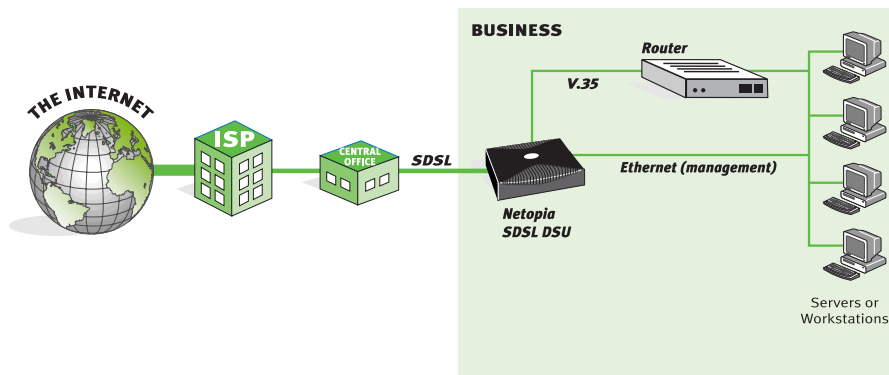
Internet Equipment

*Cost-Effectively and Quickly Upgrade a T1 or DDS Connection to SDSL*



## HIGHLIGHTS

- Connect one or two SDSL lines to any V.35 interface router
- DSL Bonding (IMUX) for speeds up to 3 Mbps using two SDSL lines
- Configurable as either a DSU or filtering bridge
- Automatic sensing of DSU or bridge mode
- Business-class management with SNMP and Telnet for remote management



The Netopia SDSL DSU allows businesses to easily and cost-effectively migrate to SDSL from any leased line connection that uses a V.35 interface router, such as T1 or DDS.

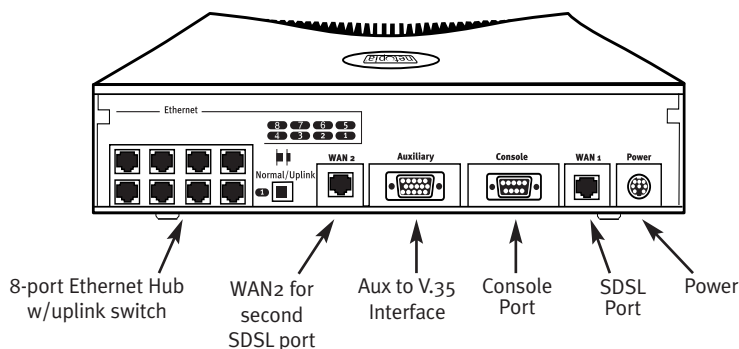
Netopia DSUs feature the unique ability to sense the connection type (Frame Relay or Bridged 1483) and configure for use as a DSU or Ethernet bridge.

The Netopia D7100 supports speeds ranging from 160 Kbps up to 1.568 Mbps. The Netopia D7171 SDSL DSU uses DSL bonding (IMUX) to support connections up to 3.0 Mbps. The D7100 can be upgraded to accommodate bonding by simply installing a TER/71 WAN module and adding IMUX functionality with the TER/IMUX Add-on.

In intelligent Ethernet bridge mode, Netopia DSUs offers packet filtering for enhanced security and business-class management features including Telnet and SNMP available locally or remotely.

## PART NUMBERS

<b>D7100</b>	SDSL DSU
<b>D7171</b>	SDSL DSU 2x IMUX
<b>TER/IMUX</b>	DSL Bonding Add-on
<b>TER/71</b>	SDSL WAN Module



# Technical Specifications

## Physical Interfaces

### WAN Interface

- One or two SDSL ports for symmetric connections from 160 Kbps to 1.568 Mbps. Compatible with Copper Mountain CopperEdge™ access concentrators
- Second WAN interface for DSL bonding (IMUX)

### LAN Interface:

- Industry-standard V.35 interface for connection to external router
- 8-port 10-BaseT Ethernet hub with uplink switch

### Management Interface:

- Serial console port with included cable for direct management connections to PC (DB-9) or Macintosh (mini-DIN8)

## DSU or Bridge Mode

- **Autosensing:** Frame Relay or Bridged 1483 on SDSL or IDSL connection to autoconfigure in DSU or Ethernet Bridge mode.
- **DSU mode (Frame Relay):** Copper Mountain SDSL or IDSL to V.35 for connection to external router using Frame Relay protocol
- **Ethernet bridge mode (Bridged 1483):** Copper Mountain SDSL to Ethernet for direct connection to LAN using Bridged 1483 encapsulation protocol

## Advanced Management

- **DSLAM Management Integration:** Integrated with Copper Mountain's CopperView™ management for remote troubleshooting, diagnostic and firmware download
- **Menu-driven Console:** Management tool accessible via Telnet, direct serial cable or remote modem connection
- **SNMPv1:** MIB II, Ethernet MIB and enterprise MIB for remote management using SNMP console applications
- **Diagnostic Utilities:** ICMP Ping utility to test IP connectivity from Netopia D7100 to local or remote IP address; Telnet client to allow remote access to devices on the remote side of the bridge or DSU
- **Event Histories:** Rolling record of up to 128 WAN and 128 device events recorded in event history viewable from console connection
- **Syslog client:** Allows on-going record of all or a selection of WAN and device events
- **Status lights:** Front panel with up to 21 status lights (LEDs) for at-a-glance management of Ethernet and DSL connection; lighted power button on front panel for easy on/off control
- **Upgrade Firmware:** Add features via remotely accessible TFTP client or X-modem transfer using remote modem or direct console cable connection
- **Configuration:** Download or upload configuration via remotely accessible TFTP client or X-modem transfer using remote modem or direct console

cable connection; configuration retained with firmware upgrades; battery backup to protect configuration across power failures

## Security Features

- **Built-in Firewall:** Built-in basic firewall pre-configured to disallow all inbound traffic
- **Packet Filters** (16 user definable filter sets): IP and MAC layer packet filtering; Filter packets on source or destination address, service or protocol; filter incoming packets for security, or outgoing packets for more efficient use of SDSL bandwidth
- **Management Access:** Password-protected access to management tools with up to 4 user names and passwords

## Built-in Utilities

- **ICMP Ping:** Test IP connectivity from router to local or remote site
- **Trace Route:** Determine routing path to particular host name or IP address with a maximum setting for hops and time out, allows for reverse DNS
- **Trivial File Transfer Protocol (TFTP) Client:** Upload and download firmware and configuration files directly to the router

## Statistics Reported

- **Send & Receive packet count:** IP, Ethernet (EtherTalk, LocalTalk packet count available with AppleTalk Kit only)
- **Ethernet Statistics:** Packet count, Errors, collisions
- **WAN Statistics:** Per-channel bytes transmitted and received, Packets sent and received and remote IP address
- **Device Event History:** Continuous report of up to 128 device events or until cleared. History retained after reset
- **WAN Event History:** Continuous report of up to 128 WAN events or until cleared. History retained after reset

## Feature Add-ons

- **DSL Bonding Add-On:** Allows bonding of multiple DSL lines (IMUX), multiplying available bandwidth up to two times. Upgrading an existing DSL router to support DSL Bonding also requires purchase of an additional DSL WAN module (TER/71 for SDSL). This Kit includes a firmware upgrade key only. (TER/IMUX)

## WAN Modules

- **TER/71:** SDSL Module

## Package Includes

- Netopia Router
- One 14.5 ft. RJ45 10-BaseT Ethernet cable
- Console cable
- CD containing complete documentation, useful setup programs, Internet browsers and other valuable applications
- 2 user License of Timbuktu Pro collaboration software

## Hardware Specifications

- **Memory:** 4 MB DRAM memory
- **Environmental Requirements:** Operating: 0° to +40° C. Storage: 0° to +70° C (20 to 80% non-condensing)
- **Power Requirements:** AC 100-240 V; 50/60 Hz; 1.2A
- **Dimensions:** 9.45" (240 mm) wide X 2.25" (57.2 mm) high X 7.95" (202 mm) long
- **Weight:** 1lb, 14 oz (851 g) (unit carton)
- UL Listed, CSA Approved, FCC part 68 and part 15, Class A

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### INTERNET

www.netopia.com

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