



BLACK BOX[®]

NETWORK SERVICES

Total Access SDSL Router

Key Features

- ▶ Full featured bridge/router incorporating a SHDSL WAN interface
- ▶ Supports symmetrical data rates from 200Kbps to 2.312Mbps with a range of up to 20,000 feet
- ▶ Supports Multiprotocol Encapsulation over ATM and PPPoA
- ▶ 10/100 BaseT Ethernet Interface
- ▶ NAT/PAT allows multiple users to share one DSL line and share a single IP address
- ▶ Built-in 90-240VAC 50/60Hz Autoranging AC power supply
- ▶ Remote configuration
- ▶ Software is Flash-upgradable via TFTP or Xmodem
- ▶ Standard five-year warranty

The Total Access[®] 544R is a cost-effective SHDSL router targeted for small and branch offices. Capable of symmetrical data rates up to 2.304 Mbps, the Total Access 544R provides ample bandwidth for most small offices. The Total Access 544R provides small offices and branch offices with fast, affordable, and easy-to-use access to the Internet and corporate network. This device provides access to high-speed networks over an SHDSL network interface. By using low-cost DSL services instead of traditional leased lines or Frame Relay, customers can save on monthly costs, quickly leading to substantial annual savings.

SHDSL is the newest DSL technology targeted at the small- to medium-sized business market. SHDSL allows service providers worldwide to deploy the technology, which combines the spectral, reach, and interoperability benefits of ANSI HDLSL2 and ETSI SDSL. SHDSL delivers symmetric data rates up to 2.3 Mbps over a single copper pair at up to 30 percent greater distances and at 35 to 45 percent higher data rates than 2B1Q-based SDSL, and is rate-adaptive. Its TC-PAM modulation technique ensures spectral compatibility with other

DSLs deployed in the same binder group. With the Total Access 544R, carriers can offer enterprise customers the ability to provide multiple users network access over a single SHDSL interface. For simultaneous access to the corporate network and the Internet, the Total Access 544R offers multiple PVC configurations. In addition, the Total Access 544R provides NAT/PAT, functionally providing security from unauthorized access to the users network and allowing a single IP address to be shared among multiple users. Teaming the NetVanta[™] 2100 with the Total Access 544R provides additional firewall protection and VPN capability.

The Total Access 544R also provides a cost-effective campus connectivity solution. When used with private dry copper, the Total Access 544R delivers 2.304 Mbps bi-directionally over a single twisted pair of copper. The Total Access 544R can also transmit at subrates ranging from 192 kbps to 2.304Mbps. This solution can be used to extend a LAN or provide remote access to single user or LAN segment. The Total Access 544R provides for simple network management.

The Total Access 544R offers both a DHCP server and client, allowing both the WAN interface and the devices on the LAN to obtain IP addresses automatically. Additional network management features include built-in Telnet, ping and trace route utilities to allow trouble-shooting of network problems. The Total Access 544R also provides SNMP for stats and alarms.

Specifications

WAN Network Interface —

- SHDSL
- Line Rate: 200 kbps to 2.312 Mbps
- Line Code: TC-PAM
- Line Interface: RJ-45
- ITU-T G.991.2 (Annex A and Annex B)
- Rate Adaptation: G.handshake – G.hs (ITU-T G.994.1)

LAN Network Interface —

- Ethernet: 10/100 BaseT
- Line Interface: RJ-45

Routing Protocols —

- TCP
- RIPv1 and RIPv2
- UDP, ICMP, ARP, UDP Relay, IPCP, SYSLOG

ATM —

- Support for up to six virtual circuits
- RFC 1483 - Multiprotocol Encapsulation over ATM AAL5
- RFC 1577 – Classical IP over ATM
- RFC 2364 – PPP over ATM

PPP —

- LCP, IPCP, BCP, CCP

Address Management —

- DHCP (Server)
- RFC 1631 – NAT (One-to-One and Many-to-Many)
- PAT (One-to-Many)
- IEEE 802.1D MAC Bridging and Filtering Capabilities
- Packet Filtering (Pattern I, Bridge)

Configuration —

- RS-232 Craft Interface (DB-9)
- Telnet
- Software is Flash upgradeable via TFTP or Xmodem

Environment

Operating Temperature — 0° to 50°C

Storage Temperature — -20° to 70°C, (-4° to 158°F)

Relative Humidity — Up to 95%, non-condensing

Physical

Dimensions — 3.81cm H x 15.88cm D x 22.86cm W

Weight — 0.91kg

Power — 90 to 240 VAC, 50 to 60Hz

Agency Approvals — EN55022, EN50082-1, En60950, CE Mark, ETSI 300

Black Box Network Services - The world's largest network services company

We are, with 25 years of experience, the world leader in network infrastructure services.

On the Phone — no charge, answer calls in less than 20 seconds, find the right product with our technical experts.

On-site — superior design and engineering, Certified installations, end-to-end service.

On-line — receive technical knowledge on-line, including technology overviews, BLACK BOX Explains and the Knowledge Box.

Most comprehensive TECHNICAL SUPPORT — our best Product! Free hotline TECH SUPPORT!

The world's best customer service — Custom design services and products, the best warranties, money-saving discount programs.

BLACK BOX exclusives — Certification Plus. Guaranteed-for-life products and services.

Complete Package

- Total Access 544R
- AC power cord
- 6' RJ-45 to RJ-11 WAN cable
- RJ-45 to DB9 Craft interface adapter

Ordering information

ITEM

CODE

Total Access	
544R, SHDSL Router with Euro-CableMDS-TA544R
544, 2B1Q SDSL with Euro-CableMDS-TA544S
Batterie Backup SystemMDS-TABAT