

## G.shdsl Modem/Router



### Key Features

- ▶ Interoperability in a multivendor environment to ensure numerous cost-effective, competitive network solutions.
- ▶ Easy configuration and management with password control for various application environments.
- ▶ Efficient IP routing and transparent learning bridge to support broadband Internet services.
- ▶ VPN pass-through for safeguarded connections.
- ▶ DMZ host/Multi-DMZ/Multi-NAT enables multiple workstations on the LAN to access the Internet for the cost of IP address.
- ▶ Fully ATM protocol stack implementation over SHDSL.
- ▶ PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP.
- ▶ SNMP management with SNMPv1/SNMPv2 agent and MIB II.
- ▶ Rate/range adaptability, providing access to subscribers beyond traditional limitations over a single copper pair.
- ▶ Spectral compatibility with services co-existing in the same binder group or cable.
- ▶ Robust performance for ease of installation and predictable performance in noisy, real-world implementations.

The MDS5110A (Single-Line High Speed Digital Subscriber Line) router from BLACK BOX complies with G.992.1 and G.992.2 standards with 10/100 Base-T auto-negotiation. It provides business-class, multi-range from 192Kbps to 2.304Mbps payload rates over existing single-pair copper wire. The MDS5110A router is designed not only to optimize the service bit rate from central office to customer premises also it integrates high-end Bridging/Routing capabilities with advanced functions of Multi-DMZ, virtual server mapping and VPN pass-through.

Easy configuration and monitoring can be accomplished by using browser. The MDS5110A router has full routing capabilities to segment/route IP protocol and is capable of bridging other protocols. It can be also configured in either server or client mode providing a point-to-point connectivity between two LAN.

The MDS5110A allows customers to leverage the latest in broadband technologies to meet their growing data communication needs. Through the power of DSL products from BLACK BOX, you can access superior manageability and reliability. It can be used for variety of applications, including video conferencing, remote training, e-commerce, and other multimedia applications.

## Specifications

Routing	ATM	Encoding scheme: TCPAM	sing)
IP Routing	Up to 8 PVCs	Data Rate: N x 64Kbps (N=1-36) or Rate adaptive	Memory
Static Routing and RIPv1/RIPv2	UBR/CBR Traffic Shaping	Impedance: 135 ohms	2MB Flash Memory, 4MB SDRAM
IP Masquerading NAT/PAT	AAL5	Hardware Interfaces	
DHCP Server	OAM F5 Loopback	WAN: RJ-11	Specifications are subject to change without notice.
DNS Relay and Caching	ATM Forum UNI 4.0	LAN: RJ-45	
Bridging	AAL5 Encapsulation	Console port: RS232	
IEEE 802.1D Transparent Bridging	VC Multiplexing and SNAP/LLC	Indicators	
Configuration	Ethernet over ATM (RFC 1483)	General: PWR, ALM	
Local Console (RS232)	PPP over ATM (RFC 2364)	WAN: LNK, ACT	
Telnet Access	Classical IP over ATM (RFC 1577)	LAN: 10/ACT, 100/ACT	
Web-Based GUI (HTTP)	PPP	Physical/Electrical	
Password Control	PPP over Ethernet (RFC 2516)	Dimensions: 18.7 x 3.3 x 14.5 cm (WxHxD)	
Network Management	PPP over ATM (RFC 2364)	Power: 230VAC	
SNMPv1/SNMPv2 Agent	User Authentication with PAP/CHAP/MS-CHAP	Power consumption: 6 watts	
MIB II	WAN Interface	Temperature: 0-45°C	
Software Upgrading	SHDSL: ITU-T G.991.2 (Annex A, Annex B)	Humidity: 0%-95% RH (non-conden-	
TFTP download			
WEB Browser			

### Ordering information

ITEM	CODE
G.shdsl Modem/Router .....	MDS5110A

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