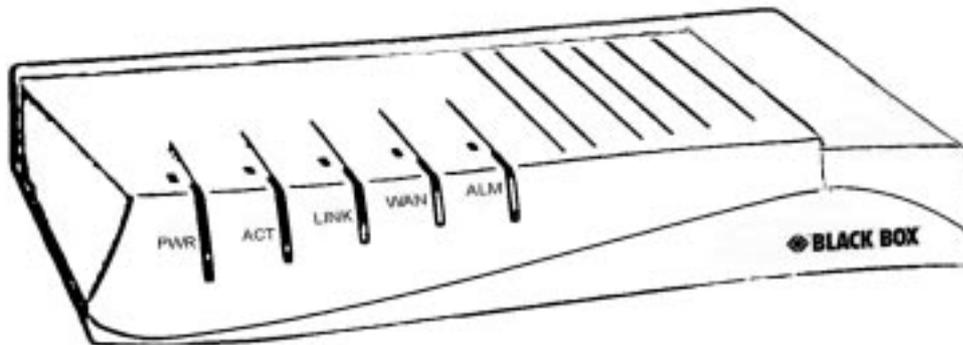




BLACK BOX[®]

NETWORK SERVICES

MDSL Modem über Kupfer



Key Features

- ▶ High Speed Symmetrical Data Transmission on Single Twisted Copper Pair Wire
- ▶ 2B1Q Line Coding
- ▶ Symmetrical Multi-rate data transmission from 144Kbps up to 2320Kbps
- ▶ End to end configuration functionality
- ▶ Interoperable with Major DSL DSLAMs
- ▶ ATM cell mode over SDSL
- ▶ PPPoE filter and RFC1483 bridging over AAL5 over SDSL
- ▶ TFTP for software upgrade
- ▶ Embedded SNMP standard MIB for management
- ▶ Local management via RS-232 Craft port and Ethernet port
- ▶ Remote management via Telnet through SDSL
- ▶ Built-in 4-port 10 Base-T Ethernet hub

The BLACK BOX 2100 series Multi-rate SDSL modem is an ATM cell mode, 2B1Q line code based CPE designed to be interoperable with most of the major DSLAM or Multi-service Access Systems in the market. It's neat structure to provide simple bridging function to the customer needs with affordable low cost. The symmetrical data service of this SDSL modem is suitable for telecommuting, office & remote office use. CPE user can simply connect to PC LAN via 10Base-T Ethernet to get the high-speed symmetrical Internet access or other data services from 144Kbps up to 2320Kbps. The transmitting data rate can be programmed with 8 Kbps step which can adapt to the best "rate vs. range" performance for efficient and stable data transmission. This rate control can be used as quality of service control

bandwidth from ISP to the end user. The BLACK BOX 2100 uses the 2B1Q line code with echo cancellation to transmit the high data rate over the single twisted pair of telephone wire without the affect by bridge tap and mixed cable links. It also provides high immunity to background noise and

enables transmission over multiple pair cables.

The Complete Package

- MDSL Modem
- Power supply
- Konfiguration cable DB9
- User Manual

Specifications

Hardware Specifications

LAN Interface — 10Base-T Ethernet, IEEE 802.3

- Connector: RJ-45 x 4

WAN — SDSL Line Interface

- Data Rate : 144Kbps to 2320Kbps
- Rate adaptive step : 16Kbps
- Line Code : 2B1Q
- Line Impedance : 135 W
- Chipset : Conexant(Rockwell) RS-8973 or compatible
- Test Standard : ANSI T1E1.4/94-006; ETSI ETR 152
- Connection Loops : One Pair (2-wire)
- Connector : RJ-11

Indicators — PWR: Green LED, indicate power in operation

- ALM: Green LED, Data error or operation

faulty status
-LINK: Green LED, indicate LAN data link status

- ACT: Green LED, Transmitting / Receiving Data

- WAN: Green LED, indicate SDSL data link status

OAM&P — Local: RS-232 Craft Port or Ethernet port

- Remote : SNMP , Telnet via SDSL
Environment — Temperature : 0 C ~ 50 C
Humidity : 5% ~ 95% Non-condensing

Physical Dimensions — (WxDxH)
220mm x 169mm x 40mm

Electrical — AC Adapter: Input 110/220 VAC, 50/60Hz; Output 12VDC 1A

Power Consumption: Less than 5 Watts
Safety — UL & CE, EMC/EMI, FCC

Surge — Meet IEC 1000-4-5 class 2

Reliability — MTBF > 35,000 Hours

Software Specifications

ATM — ATM Cell over SDSL, AAL5

- Cell format - ITU-T Rec. I.361
- Support UBR , CBR & VBR-nrt

Bridging — Transparent Bridging (IEEE 802.1D)

- RFC 1483
- Spanning Tree Protocol (IEEE 802.1D)
- Supporting bridge filter function
- Supporting PPPoE filter function

Routing — IP: UDP, TCP, ICMP

- Comply to RFC791 for IP and RFC826 for ARP
- PAT (Port Address Translation), Comply with RFC1631

- TCP/IP RIP1, RIP2 Compatible

- Static Routing
- PPP over ATM: PPP over PVCs, LCP, IPCP & BCP, Security: PAP(RFC1334, RFC1994), CHAP
- RFC1483 routing: RFC1483, multi-protocol over AAL5
- IPoA: ARP(RFC1577), Signaling(RFC1755)

Management — SNMP MIB II

- TFTP
- Telnet

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.

Ordering information

ITEM

CODE

MDSL	
SDSL Modem (Bridge) 4 Port 10Base-TMDSX2100B
SDSL Modem (Router/Bridge) 4 Port 10Base-TMDSX2100R
SDSL Modem (V.35) 1 Port V.35MDSX2000V35