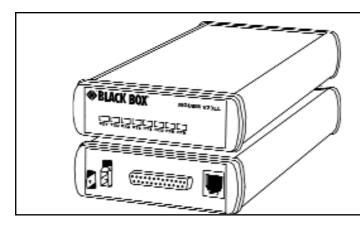# BLACK BOX®
NETWORK SERVICES

V23 Lease Line Modem

The simple modem for your point-to-point and multipoint V.23 network

Key Features

▶ 2-wire or 4-wire line

▶ 600-ohm/high-impedance selectable-line interface

▶ Line equalisation

▶ Switched or constant carrier

▶ Link selectable TX level/RX sensitivity

▶ Fast DCD response

▶ Low RTS/CTS delay

▶ Low power sleep state

▶ V24 Interface EIA RS232 compliant

Overview

The V23LL (leased line) is a private line modem that supports 1200-bps half- and full-duplex operation over two- and four-wire circuits respectively. The modem has a robust aluminium enclosure along with an interfacing PCB that provides standard connectors for the power, DTE and line connections. The setup of the V23LL is simple, the modem offers transparent conversion and all settings are administered by setting the jumpers within the unit. These are used to select RTC/CTS delay (for either 20ms or 30ms), transmit level, and receive sensitivity. This also means that complex AT commands won't have to be typed in. The V23LL also features 10-ms detection of carrier loss and 15-ms carrier detect time for rapid half-duplex and multi-drop sync-up time. The modem can be used on a number of circuit types, including: Point-to-Point, Multipoint, Multipoint hybrid, Omnibus, Multidrop and Omnibus multidrop circuits.

The modem has eight LED's on the front of the unit: Power, DTE Ready, Carrier Detect, Receive Data, Transmit Data, Data Carrier Detect, Data Set Ready and Data Terminal Ready.

Typical Applications

Can be used in many multi-drop and point-to-point applications, such as for telemetry, remote management and remote control

The Complete Package:

▶ An industrial grade V23 Leased Line Modem

▶ 12V AC Supply

▶ A phone cable with RJ45 plug (meeting TBR15 and TBR17 requirements)

▶ A phone cable with BT631A plug for UK use only (meeting BS6328 requirements)

▶ A user's manual

Specifications for the V23 Leased Line Modem

Standards-

        V.24/V.28/EIA-232 DTE interface: V.23 1200-bps forward channel FSK

Line Interface-

        2-wire or 4-wire, 600 ohms or high impedance, all by link selection

Connectors-

        (1) DB25 F (V.24): (1) RJ-11 (leased)

Indicators-

        (8) LED's: RDY, TXD. RXD, RTS, CTS, DCD, DSR, DTR

Power-

        From external power supply:

                Input: 100-240 VAC, 50-60Hz

                Output: 9.0 to 13.0V AC

                Current consumption: 100mA normal at 12.0V AC, 140mA maximum

Operating temperature-

        -15 to +60 C

Size-

        3.5H x 11W x 22D cm

Weight

        0.4g

Ordering Information:

Product Name: V23LL Modem
Order Code: MDU910LL