BLACK BOX®
NETWORK SERVICES

Data Link 33.6 Modem

Business Modem providing *Performance, Ruggedness* and *Flexibility*

Key Features

▶ Dialup Operation 2-/4-wire closed line operation
▶ Automatic dial backup of leased lines
▶ Line-quality testing
▶ Extensive security features
▶ X.25 network access
▶ ITU V.13 half-duplex

Overview

The Data-Link 33.6 Modem is a modem for the professional user and encompasses a number of features that set it above standard desktop modems. These include: front panel configuration, line quality testing, half-duplex operation, unattended automatic dial backup and connection security.

Operating over dial-up and 2- or 4-wire leased line connections, the Data-Link modem has the ability to automatically dial and set-up a connection to a pre-configured number upon leased line failure. The Data-Link also has a dual level security ability to prevent unauthorised access and changes to profiles, passwords and phone configurations.

As well as these advanced features the modem supports the standard protocols and line speeds, from V.22 (1200 bps) to V.34+ (33 600 bps), MNP4 or V.42 error correction and MNP5 or V.42 bis data compression.

The Industrial Data-Link 33.6 Modem offers the same features as the standard version but comes in a rugged metal case to protect it from harsh environments. DC power supplies, alarm relays, and extended temperature-range protection are also available for the Industrial unit.

Typical Application

Leased line modem between businesses with automatic backup.

Technically Speaking

The Data-Link modem consists of Answerback, Callback and Inactivity password security modes. The modem has non-volatile memory where all passwords and phone numbers are stored. This is kept even if the modem is turned off, so there is no danger of all entered information being lost.

The Answerback security mode is controlled by the answering modem and depends on a password exchange which authorises the modem connection (i.e. if the password matches the one stored in the modems memory then access is granted, otherwise the call is disconnected).

The Callback security mode is again controlled by the answering modem. The calling modem gives a password and this is referenced against the list of passwords within the answering modem - which subsequently disconnects the call and dials the phone number associated with that password. The password is re-sent and if it matches, the call is connected. This double security method guarantees the password and localisation of the calling modem.

The Inactivity password mode simply asks for the password if no data has been passed across the line for a specified time. If the password is correct the line is kept open, if not the line is dropped.

The Complete Package

• One MDU903 or MDU904 Modem
• One RJ-11 Phone Cable
• Power Supply
• Lease Line RJ-11 Cable
• AT and V.25 bis command reference manual
• User manual

Specifications

Cables - 2-wire; 1-wire leased line
Speed - 33.6 line, 115.2 DTE max
Standards - V.34+, V.32 bis, V.23, V.22 bis, V.21, V.42 bis, V.42, MNP2-5, V.13
Interface - V.24/28 data interface
Connectors - (1)DB25, (1) RJ-11
Indicators - (4)LEDs; 32-character LCD display
Power - 230-VAC internal IEC 320 (48 volt DC special order)
Operating Temperature - 0 to 50°C
Storage Temperature - -20 to 70°C
Relative Humidity - 10-90% (non-condensing)
Size -   MDU903: 3.5H x 17W x 29D cm
          MDU904: 3.5H x 17W x 28.8D cm
Weight -   MDU903: 900g
               MDU904: 1kg

Ordering Information

Product Name	Code
Data-Link 33.6	MDU903
Industrial Data-Link 33.6	MDU904
Dial/Leased Cable Set (1 per modem required)	EHU903-UK