

ID-MUX ISDN MULTIPLEXER



FEATURES & BENEFITS

- > SMART ISDN AND TDM ACCESS MULTIPLEXER
- > PRIMARY AND BASIC RATE ISDN INTERFACES
- > OPTIONAL Nx64K SERIAL DATA INTERFACES
- > ON-BOARD ETHERNET INTERFACE WITH INTEGRATED IP ROUTER
- > LEAST COST ISDN SWITCHING

> THE TELINDUS ID-MUX IS A COMBINATION OF A SMART ISDN ACCESS SWITCH AND A TIME DIVISION MULTIPLEXER.

It offers the possibility to deliver cost-effectively a combination of services based on ISDN (basic rate or primary rate), Nx64k serial data and IP Ethernet traffic.

The basic unit comes with 8 basic rate ISDN interfaces (BRI), 2 primary rate ISDN interfaces (PRI) and one Ethernet interface. Optionally a second board can be added to include 4 additional Nx64k serial data interfaces.

The unit is fully compliant to the Euro-ISDN standard (Q.931) and features full ISDN switching between all the ISDN ports on the unit. It also includes the possibility to perform least cost switching, number alteration (e.g. prefix dialling) and ISDN BRI to PRI aggregation.

Each of the 2 Mbps G.703 interfaces can be defined as a PRI, a channelised E1 (G.704) or a combination of both (FPRI+FE1). This allows carrying on the same link ISDN traffic together with user data from the Nx64k serial or IP Ethernet interfaces.

Typical applications include the conversion between PRI and BRI, least cost ISDN switching or prefix dialling when connecting to a new license operator (NLO) and the delivery of combined ISDN and data services over the same 2 Mbps connection.

G.703 INTERFACES

- > Number of interfaces: 2
- > Connector: RJ45, DTE
- > Maximum line attenuation: 40 dB at 1 MHz
- > Maximum distance: 1.5 km
- > Interface type: G.703/G.704
- > Operation Modes:
 - > ISDN TE or NT, conform CTR4, I431, Q.921, Q.931, ETS 300 125 (LAP-D) and ETS 300 102-1 (ISDN Layer 3 Call Control)
 - > Channelised E1
 - > Combined FE1/FPRI

BRI INTERFACES

- > Number of interfaces: 8
- > Connector: RJ45, DTE
- > Operation Modes:
 - > ISDN TE or NT S Interface, conform CTR3, I430, Q.921, Q.931, ETS 300 125 (LAP-D) and ETS 300 102-1 (ISDN Layer 3 Call Control)

CONSOLE INTERFACE

- > Connector: RJ45
- > Operation: V.24/V.28
- > Speeds: 9600 8N1

ETHERNET INTERFACE

- > Connector: RJ45
- > Operation: 10Base-T Ethernet

SERIAL PORT EXTENSION BOARD (OPTIONAL)

- > Number of interfaces: 4
- > User speed: Nx64k (N=1..31)
- > Connector: High Density DCE (optional adapter cables for V.35, V.36, X.21)
- > Test loops: Digital Loop, Local Loop

ISDN STATISTICS

- > Line performance according to Q.821
- > CRC-4 errors per line
- > Charges per line
- > Line occupation
- > Call routing information

ISDN CALL ROUTING FUNCTIONALITY

- > Called Dial Number (CDN) based routing
- > Connection Identification Profile (CIP) based routing

- > Flexible redialling
- > Alternative routing in case of call-setup failure
- > Calling Line Identification (CLI) and replacement
- > Advice Of Charge (AOC) insertion
- > Standard hardware fail-safe relay for connecting BR or PR circuit upon power fail

EMBEDDED IP ROUTER FUNCTIONALITY

- > Routing Modes:
 - > ISDN dial on demand routing
 - > FE1 leased line routing
 - > FE1 leased line routing with ISDN backup
- > WAN speeds:
 - > ISDN dialup routing: 64 kbps
 - > FE1 leased line routing: Nx64 kbps up to 256 kbps (128 kbps sustained performance)
- > PPP encapsulation compliant RFC 1661,1662
- > Calling Line Identification (CLI) for dial-in connection
- > PAP access security
- > Port Address Translation (PAT)
- > Static routing with up to 10 static routes

MAINTENANCE AND MANAGEMENT

- > Tracing with configurable trace level
- > Built-in SNMP agent for alarm management with call-home feature
- > Integrated HTTP Web server interface
- > Support of TELNET
- > Access to management via LAN port, permanent leased line or via ISDN call.

FRONT PANEL

- > Heart Beat: Overall system operation
- > ALM: configuration error
- > LAN: LAN traffic monitoring
- > BR (1..8): activation of BR interfaces
- > PR (1..2): status of PR interfaces

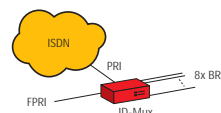
MECHANICAL DATA (H X W X D)

- > Dimensions: 64 x 268 x 260 mm - Weight: 2.5 kg
- > Free extension slot

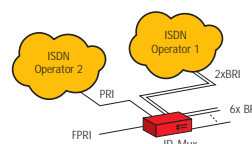
POWER REQUIREMENTS

- > External AC/DC power adapter (90..264 VAC, 50/60 Hz) included
- > Optional DC/DC power adapter (48 VDC)
- > Maximum power consumption: 15 Watts

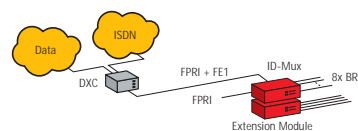
TYPICAL APPLICATION: SPLITTING A PRI IN A FRACTIONAL PRI (FPRI) AND DIFFERENT BRI'S



TYPICAL APPLICATION: LEAST COST SWITCHING BETWEEN DIFFERENT PROVIDERS



TYPICAL APPLICATION: DELIVERING COMBINED ISDN AND DATA SERVICES



SALES CODES

- > 180034 ID-MUX desktop unit with free extension slot
- > 180038 Extension module with 4 generic serial interfaces
- > 180046 V.35 adapter cable for extension module
- > 180047 V.36 adapter cable for extension module
- > 180048 X.21 adapter cable for extension module