

# PRI-MUX ISDN MULTIPLEXER

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

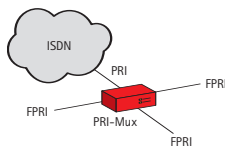
It offers the possibility to deliver cost-effectively a combination of services based on Primary Rate ISDN (PRI), Nx64k serial data and IP Ethernet traffic.

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

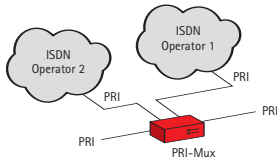
The unit is fully compliant to the Euro-ISDN standard (Q.931) and features full ISDN switching between all the ISDN ports on the unit. It also includes the possibility to perform least cost switching, number alteration (e.g. prefix dialling) and FPR (Fractional Primary Rate) to PRI aggregation.

The G.703 interfaces towards the backbone can be operated as a PRI, as a channelised E1 (G.704) or as a combination of both (FPRI+FE1).

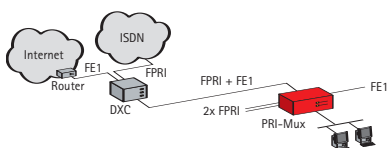
TYPICAL APPLICATION: SHARING A PRI BETWEEN DIFFERENT USERS



TYPICAL APPLICATION: LEAST COST SWITCHING BETWEEN DIFFERENT PROVIDERS



TYPICAL APPLICATION: DELIVERING COMBINED ISDN, FE1 AND IP SERVICES



This allows using a single E1 link to offer simultaneously services based on ISDN, Nx64k serial data and IP Ethernet traffic.

Typical applications include sharing a PRI between different users, 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.

## FEATURES & BENEFITS

- > SMART ISDN AND TDM ACCESS MULTIPLEXER
- > FOUR PRIMARY RATE ISDN INTERFACES
- > OPTIONAL NX64K SERIAL DATA INTERFACES
- > ON-BOARD ETHERNET INTERFACE WITH INTEGRATED IP ROUTER
- > SHARING OF ISDN BETWEEN DIFFERENT USERS
- > LEAST COST ISDN SWITCHING

### G.703 INTERFACES

- > Number of interfaces: 4
- > 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, 1431, Q.921, Q.931, ETS 300 125 (LAP-D) and ETS 300 102-1 (ISDN Layer 3 Call Control)
  - > Channelised E1
  - > Combined FE1/FPRI

### CONSOLE INTERFACE

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

### ETHERNET INTERFACE

- > Connector: RJ45
- > Operation: IEEE 802.3 (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

### FAIL-SAFE RELAY EXTENSION BOARD (OPTIONAL)

- > Number of interfaces: 2x4
- > Connector: RJ45
- The board allows the automatic interconnection of two pairs of G.703 circuits in case of power fail

### 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

### ISDN STATISTICS

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

### 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
- > TELNET and local console: command line or menu-driven interface
- > 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
- > PR (1..4): 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

### SALES CODES

- > 180032 PRI-MUX desktop unit with free extension slot
- > 180037 Fail-safe relay extension module
- > 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