



BLACK BOX[®]

NETWORK SERVICES

Intelligent ISDN Concentrator



Reduce your ISDN line costs and protect investment in existing equipment. Makes ISDN shareable and manageable.

Key Features

- ▶ Break one or two ISDN/PRI lines into multiple ISDN/BRI lines
- ▶ 1 or 2 ISDN/PRI ports
- ▶ 16 or 32 ISDN/PRI ports
- ▶ Provides channel reservation
- ▶ Configuration via control port or via any B channel
- ▶ Support MSN, sub-addressing and Bearer
- ▶ Call log and alarm monitoring via PC software

Overview

The Intelligent ISDN Concentrator is a Primary Rate ISDN (PRI-T2) device, which connects Basic Rate ISDN (BRI-SO) terminal equipment. By consolidating voice, data, fax and video traffic it provides a more efficient and economical use of ISDN and preserves investment in Basic Rate terminal equipment. It concentrates up to 32 ISDN/BRI ports onto either 1 or 2 ISDN/PRI ports. The ISDN concentrator provides two transparent B channels (64Kbps) and full D channel signalling to each BRI port. Devices connected to the BRI ports can both originate/answer either voice or data calls to/from the ISDN public network and the maximum number of simultaneous calls equates to the number of B channels available on the PRI's (up to 60).

The unit is configured easily via either the supplied GUI software or from an asynchronous terminal. Configuration of a remote unit is achieved by calling the unit via one of the B channels or by PSTN. Many features are provided including: Bandwidth Allocation, Call Forwarding, Hunt Groups, Direct Dial Inwards.

Typical Application

Migration from multiple BRI's to a single PRI using existing Terminal equipment. This protects the initial investment in terminal equipment and is fully transparent to the users, i.e. no additional training is required. Money is further saved by sharing existing B channels and provides better cost control via full call logging.

Dependent upon the configurations and options set within the software supplied the Intelligent ISDN Concentrator can be used as:

- An ISDN BRI concentrator/splitter with up to 2 PRI and 32 BRI ports
- An ISDN access switch with full switching capabilities
- An ISDN distributed switch with full drop/insert capabilities
- Any combination of the above

The unit is configured via the password protected control port by means of either an asynchronous terminal with AT commands or the supplied Windows GUI software. An ISDN terminal adaptor can be added to manage a remote Intelligent ISDN Concentrator. The remote management terminal must have an ISDN TA (V120) or a Modem (V34 or V32bis) and the ISU2000 configuration software.

Each port can be configured individually to produce a variety of functions. For example: incoming calls can be barred on a per port basis, incoming calls can be routed according to the type of service supported by the terminal equipment (data to a TA, audio to either a modem, fax or telephone, etc): routing can be based on three sets of MSN numbers or sub-addresses. If necessary, groups of ports can be defined to share the same configuration.

The Complete Package

- The Intelligent ISDN Concentrator - 19" chassis
- 2 screws 6x16 and 2 small discs for installation in a 19" bay, or on a wall
- 4 adhesive feet
- 1 mains power cord for 230VAC version
- User and Installation manual
- Intelligent ISDN Concentrator configuration software

Specifications:

Bandwidth: A minimum number of B channels can be reserved for each declared group of interfaces

Channel Mapping Scheme: MSN, sub addressing, bearer capability (data or voice), multilane hunt group

GUI Support: Windows 95, 98 and NT

Signalling Protocol: ETSI Q.921/Q.931 or VN6

Interface: PRI: (1) or (2) RJ-45 120 ohms
BRI: (16) or (32) RJ-45 120 ohms
Control: DB25 RS-232/V.24

Indicators: (5) Front Panel LED's: Power, Trunk 1, Trunk 2, Control, Test

Power: 230V 50Hz 50mA

Size: 443W (19") x 44H (1U) x 318Dmm

Weight: 4.3kg

Operating Temperature: 0 to 40°C

Storage Temperature: -25 to +75°C

Relative Humidity: 10 to 90% (non condensing)

Ordering Information

Product Name:

Order Code:

1 PRI, 16 BRI Intelligent ISDN Concentrator	ISU2001-16
2 PRI, 32 BRI Intelligent ISDN Concentrator	ISU2002-32
2 PRI, 16 BRI Intelligent ISDN Concentrator with Drop/Insert option	ISU2002-16
Bandwidth reservation option	ISU2000-BR
Busy Out Option	ISU2000-Busy
Port-to-Port switching option	ISU2000-PPS