BLACK BOX®

The World's Source for Cabling and Network Connectivity ^{SM}

Primary to Basic Rate ISDN Multiplexor

Combine your entire Basic Rate ISDN lines onto a single low cost Primary Rate ISDN line.

Product Features

➤ **Breaks a Primary Rate ISDN line into multiple Basic Rate ISDN lines or POTS (Analogue) telephone lines.**
➤ **Up to 8 terminals per Basic Rate line.**
➤ **TI or EI PRI Interfaces.**
➤ **S or U BRI Interfaces.**
➤ **POTS interfaces provide –48V feed and ringing (REN 3)**

➤ **Up to 15 BRIs on EI PRI and**
➤ **12 BRIs on TI PRI.**
➤ **Downstream Sub Equipped PRI.**
➤ **BRI pt-pt and pt-multipt supported.**
➤ **Protocol Independent.**
➤ **Supplementary Service Support.**

The Primary to Basic Rate ISDN Multiplexor is a stand alone unit which takes in a Primary Rate ISDN line and breaks it into multiple Basic Rate ISDN lines, POTS (Analogue) telephone lines and a sub-equipped Primary Rate ISDN line.
The Primary to Basic Rate ISDN Multiplexor is an economical way to provide BRI and POTS connections when a PRI (E1 or T1) is available.
Each BRI interface uses 2 B channels of the PRI interface. Up to 12 BRIs can be provided (8 on the main board and 4 on a plug board) for a T1 PRI and up to 15 on an E1 PRI. Once the BRI channels are enabled the remaining available B channels on the PRI are provided on a downstream sub-equipped PRI (E1 or T1 based) for PBX or other use.
The POTS interfaces works independently of the BRIs and a single PRI B channel is used for each POTS interface enabled. The POTS interfaces work like regular Telco lines and provide –48V feeding, ringing and CLI functionality.
Each BRI can support up to 8 terminals. The data links are handled locally and pt-pt and pt-multipt links are used.
Calls are mapped from the PRI to BRI/POTS interfaces using an MSN numbering scheme. If MSN is not available then direct B channel conversion can be used.
The Primary to Basic Rate ISDN Multiplexor is configured using a V24 interface connection to the PC. Using this connection all of the functions, including provision of supplementary services, are controlled. If required SPIDs can also be entered for each BRI.
The Primary to Basic Rate ISDN Multiplexor provides a high degree of protocol independence that allows it to be used with many different network types without problem. Most of the supplementary services provided on the PRI are available on the BRI.

Specifications

PRI Network	E1 AMI/HDB3, CRC-4 multi frame/ basic frame
	T1 AMI/B8ZS SF/ESF/SLC 96/TIDM
PRI Downstream	E1 AMI/HDB3, CRC-4 multi frame/ basic frame
	T1 AMI/B8ZS SF/ESF/SLC 96/TIDM
BRI Interfaces	S or U-12 max for T1, 15 max for E1
BRI Power Feeding	40V 1W per S interface
	70V 1.5W per U interface
POTS Interface	Up to 14
	-48V line feed, REN 3
Protocol Supported	ETSI, AT&T 5ESS, DMS100, NAT-1, NAT-2
Channel Mapping Method	MSN or B channel routing
	Multi Line Hunt Group
Environmental	0 – 50 degrees C, 10%-80% Humidity (non condensing)
Power	90V-240V a.c.
Size	48 cm x 28 cm x 9 cm

Ordering Information

Primary to Basic Rate ISDN Multiplexor

15 BRI	ISU9420
8 BRI	ISU9421

You may also need:
G.703 75-120 Adaptor

Male	MT242A-M
Female	MT242A-F