

# ISU 2V35

## DUAL PORT ISDN SERVICE UNIT

The ADTRAN ISU™ 2V35 is a standalone ISDN Service Unit that connects data terminal equipment to the ISDN network. The ISU 2V35 is a dual port ISDN Terminal Adapter. The unit provides a cost-effective solution for the transfer of data and images over a single ISDN line.

The ISU 2V35 can be viewed as a dual modem that supports two applications, simultaneously and independently, up to 64 kbps on each DTE interface. For high speed applications over 64 kbps, a single DTE interface can achieve rates up to 128 kbps. Target applications for the unit include video conferencing and audio broadcasting at 128 kbps.

For network testing, the unit responds to loopback commands from the telephone company Central Office.

The ISU 2V35 features dual V.35 DTE interfaces. A single DTE interface supports synchronous data transfer rates from 2400 bps to 128 kbps. When using dual DTE interfaces, synchronous data transfer rates from 2400 bps to 64 kbps are supported. For speeds over 64 kbps using a single DTE interface, the industry standard BONDING delay equalization protocol or Multilink PPP aggregates the two 64 kbps B channels for a maximum of 128 kbps.

Dialing from the ISU 2V35 is accomplished by using the front panel, stored numbers, DTR assertion, AT commands, or V.25bis in-band dialing. The front panel of the ISU 2V35 consists of a two-line by 16-character display, seven LEDs, and a 16-button keypad. This allows for configuring, dialing, testing, and monitoring of the unit without a data terminal or test equipment. AT commands may also be used for configuration and status monitoring.

In addition, the ISU 2V35 can be configured and maintained locally or remotely. For remote configuration, the unit can be accessed over the ISDN line.

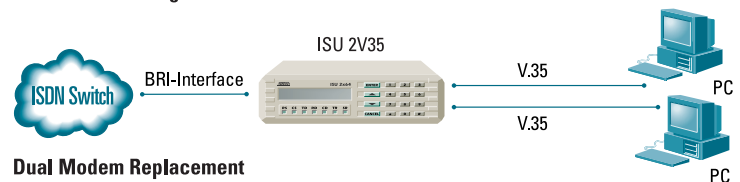
## PRODUCT FEATURES

- Dual Port ISDN Terminal Adapter
- Uses standard ISDN Basic Rate service
- Supports video conferencing and audio broadcasting at 128 kbps and dual modem replacement
- Uses a single ISDN line to support two independent applications simultaneously
- Dual DTE interfaces support data rates up to 64 kbps sync
- Single DTE interface supports data rates up to 128 kbps sync using Multilink PPP or BONDING
- Compatible with Lucent 5ESS, NT1 DMS-100, NEC, National ISDN-1
- Supports remote configuration over the ISDN line or externally
- Standard 5 year warranty

### Application Examples



### Videoconferencing



### Dual Modem Replacement



### Audio Broadcasting

## CORPORATE OFFICE

ADTRAN, Inc.  
901 Explorer Boulevard  
P.O. Box 140000  
Huntsville, AL 35814-4000

800 9ADTRAN  
256 963-8000  
fax: 256 963-6300  
fax back: 256 963-8200  
e-mail: info@adtran.com  
web site: www.adtran.com

## INTERNATIONAL CONTACTS

Asia Pacific/Australia  
+1-256 963-8779  
852-2824-8283 (Hong Kong)

Europe  
+1-256 963-2501  
+1-256 963-8669

Mexico  
+1-256 963-2502  
+1-256 963-8669

Middle East/Africa  
+1-256 963-2503  
+1-256 963-8669

Caribbean/Latin America  
+1-954 746-5355

Canada  
800 232-6811  
(Within the US and Canada)  
+1-256 963-8779  
(Other locations)

# Product Specifications

## NETWORK INTERFACE

- RJ-45 for ISDN U-Interface

## DTE INTERFACE

- Two V.35 interfaces

## DIALING SELECTIONS

- In-band DTE dialing: V.25 bis or AT commands
- Manual or automatic stored number dialing
- DTR assertion

## SWITCH COMPATIBILITY

- Lucent 5ESS, NEC, NT1 DMS-100, National ISDN-1

## DIAGNOSTICS AND TESTING

- Local and remote loopbacks
- CCITT V.54 Loopback
- Remote configuration

## DATA RATES (DTE)

- Using single DTE interface:  
2400 bps to 128 kbps synchronous
- Dual DTE Interfaces:  
2400 bps to 64 kbps synchronous

## DATA RATES (NETWORK)

- 64 kbps (1 B channel)
- 128 kbps (2 B channels)

## PROTOCOLS

- V.120, V.110, T-LINK, Clear Channel, BONDING Mode 1, Async to Sync PPP, RFC1717, Multilink PPP

## INTEROPERABILITY

- BONDING compatible inverse multiplexers
- Switched 56 DSUs, ISUs, ISDN TAs, and PPP-compatible routers

## CERTIFICATIONS

- FCC Part 15 Class A, FCC Part 68 Class A, UL, CUL, CSA, CS03

## ENVIRONMENTAL

- Operating Temperature: 0°C to 50°C, 32°F to 122°F
- Storage Temperature: -20°C to 70°C, -4°F to 158°F
- Relative Humidity: Up to 90%, non-condensing

## PHYSICAL

- Dimensions: 2.25" H, 8.75" W, 11" D
- Weight: 3.6 lbs
- Power: 120 VAC, 50 Hz, 8 watts max dissipation

## PRODUCT INCLUDES:

- 7' telephone cable (RJ45 to RJ11)
- User Manual

# Ordering Information

ISDN Ordering Codes are available to aid in ordering ISDN lines for this product

## EQUIPMENT

## PART #

ISU 2V35

U-Interface, 120 VAC.....1200234L1

ISU is a trademark of ADTRAN, Inc.  
5ESS is a registered trademark of Lucent  
Windows is a registered trademark of Microsoft Corporation  
DMS-100 is a trademark of Northern Telecom.

Specifications subject to change without notice.



ADTRAN is an ISO 9001 registered company.



Printed in the U.S.A. on recycled paper.  
161200234L1-8A September 1998  
©1998 ADTRAN, Inc. All rights reserved.