

ISU EXPRESS

128 kbps ISDN Modem



FEATURES

- **Internet access, work-at-home, and remote office applications**
- **Dial up the Internet, bulletin boards, ISDN terminal adapters, Switched 56 DSUs, and analog modems**
- **Error-free data transfers at rates up to 128 kbps**
- **BONDING Mode 1 and optional Multilink PPP**
- **One ISDN line supports multiple connections including telephone, fax, and computer**
- **POTS interface rings up to five telephones**
- **Simultaneous voice and data operation**
- **Remote configuration and flash memory for feature enhancements**
- **Low-cost ISDN line replaces two regular telephone lines, reducing expenses, and saving time**
- **Windows® Plug & Play compatible**
- **Standard 5 year warranty**

The ISU™ Express family of products are standalone devices that connect data terminal equipment to the ISDN network. The ISU Express operates like an analog modem but uses a high-speed digital telephone line. It allows data transfer at rates up to 128 kbps, four times faster than a standard V.34 analog modem. This unit is a scaled-down version of the ISU 128 and is specifically designed for applications such as Internet access, high-speed modem replacement, telecommuting, and remote office interconnection.

For work-at-home or remote office applications, the ISU Express is available with one or two optional POTS telephone interfaces. This provides RJ-11 connections for analog telephones, fax machines, or external analog modems. This feature allows a remote office to use a single ISDN line for a telephone and/or fax machine while also providing an RS-232 DTE interface for a computer. If a call is in progress on the telephone, data can still be transferred to and from your computer at rates up to 64 kbps, simultaneously. If no telephone call is in progress, data can be sent at up to 128 kbps using both B channels.

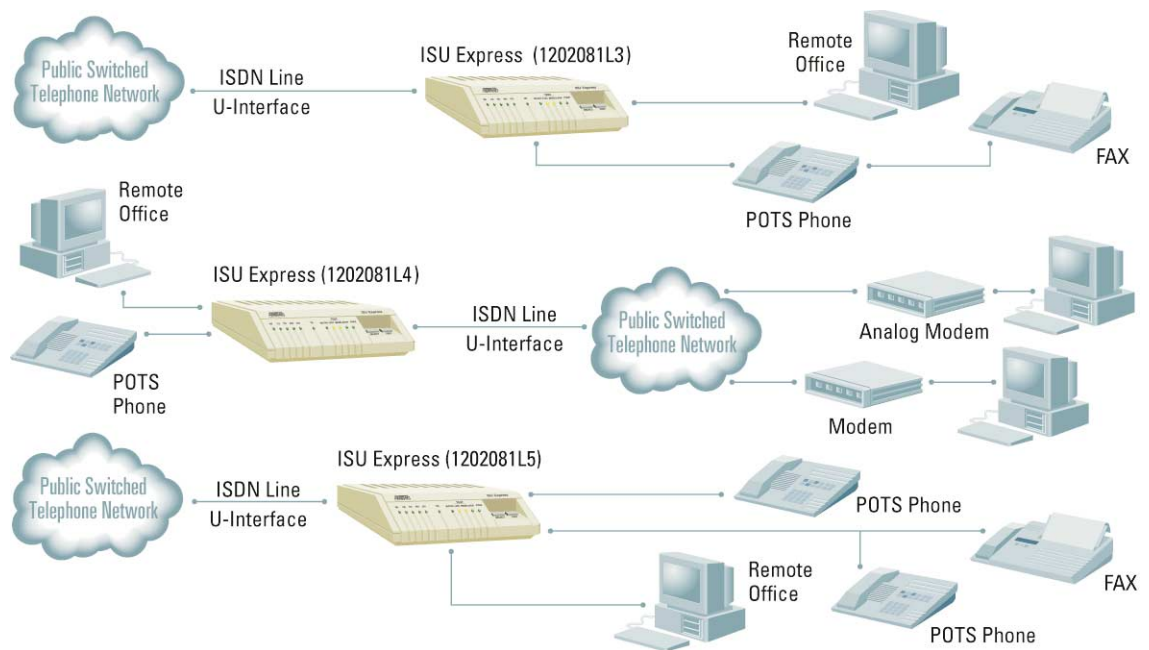
The ISU Express is also available with an optional integral V.32 bis modem. This allows the Express to communicate not only with ISDN terminal adapters or Switched 56 devices but also with analog modems. In a remote office application, this eliminates the need for an external analog modem and an additional telephone line.

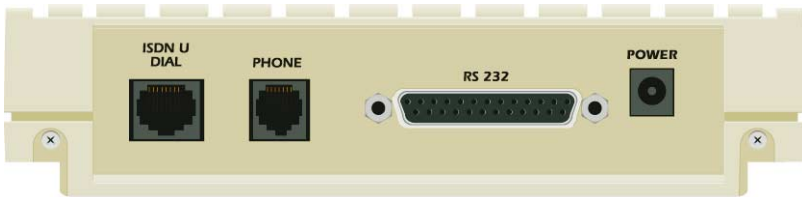
The ISU Express with the multilink point-to-point protocol (PPP) option allows dynamic bandwidth allocation between voice and data calls. This means if data is being transferred over both B channels at 128 kbps and a voice call is received or initiated, the unit automatically shifts the data to 64 kbps to accommodate the voice call. Upon completion of the voice call, the unit automatically resumes the 128 kbps data transfer using both B channels.

ADTRAN

The ISU Express transmits data over an RS-232 interface and performs at synchronous data transfer rates from 2400 bps to 128 kbps and asynchronous rates from 300 bps to 115.2 kbps. At rates over 64 kbps, the BONDING or multilink point-to-point protocol (optional) synchronizes data over the two 64 kbps B channels. Configuration of the unit is achieved using a VT100 menu system and AT commands. Dialing is initiated in-band over the RS-232 interface using AT commands, V.25 bis, or DTR assertion. The front panel contains LED indicators for power, network readiness, DTE interface leads, Ring Indication/Off Hook status, and local and remote loopback testing.

The ISU Express products were designed with the MIS manager in mind, who sometimes needs to support hundreds of employees working at home or in remote offices. Additionally, flash memory (not available in the data only unit, 1202081L1) allows the unit to be easily upgraded in the field when new features or enhancements are introduced.





ISU Express Backpanel (1202081L3, data and POTs)

Product Specifications

Network Interface

- RJ-45 for ISDN Basic Rate U-Interface

DTE Interface

- RS-232

Optional Telephone Interface

- Supports standard service (POTS)RJ-11
- Touch Tone (2500) compatibility REN=5 (supports five phones at 300 ft)

Optional Analog Modem Interoperability

- V.32 bis compatible modem
- Automatic fallback rate adaption

Dialing Selection

- In-band DTE dialing: AT commands and V.25 bis DTR assertion

Data Rates (DTE)

- 2400 bps to 128 kbps synchronous
- 300 bps to 115.2 kbps asynchronous

Protocols

- Async-to-Sync PPP, RFC 1717 Multilink PPP (optional), CCITT V.120, T-LINK, Clear Channel, DSU 57.6 async, BONDING Mode 1
- Fallback Optional: V.32 bis

Interoperability

- BONDING-compatible ISDN terminal adapters and inverse multiplexers, Switched 56 DSUs, ISDN terminal adapters, and ISUs
- Optional: V.32 bis compatible modems

Switch Compatibility

- National ISDN-1
- AT&T 5ESS, Northern Telecom DMS-100, NEC

Diagnostics and Testing

- Local and remote loopbacks
- V.54 loopback, 2047 pattern
- Remote configuration

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 95%, non-condensing

Physical

- Dimensions: 1.63" H, 6.50" W, 8.25" L
- Weight: 1.7 lbs
- Power: 115 VAC, 3 W typical power

Ordering Information

ISDN ordering codes are available to aid in ordering ISDN lines for this product

EQUIPMENT	PART #
■ ISU Express: data only	1202081L1
■ ISU Express with V.32 bis/V.42 bis modem option	1200081L2
■ ISU Express with POTS telephone interface	1202081L3
■ ISU Express w/POTS interface and V.32 bis modem option	1202081L4
■ ISU Express: with two POTS	1202081L5
■ ISU Express: with POTS and multilink PPP	1202 081L6

Product Includes: ISU Express, 6' telephone cable (RJ45 to RJ11), 110V wallmount power supply & User Manual

Specifications subject to change without notice.

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