



# ISU 512e

## 512 kbps ISDN Inverse Multiplexer with SNMP

### Product Features

- Low cost inverse multiplexing
- Applications include video-conferencing, LAN/WAN connectivity, high-speed file transfer, and T1 backup
- Supports up to four ISDN Basic Rate lines
- Operates at synchronous data rates of up to 512 kbps
- Supports industry standard BONDING and Multilink PPP
- Dialing options include front panel, stored number, V.25 bis, DTR dialing, and an RS-366 dial interface
- Flash memory for easy upgrades
- Remote configuration over ISDN line
- Embedded SNMP and Telnet
- 10BaseT Ethernet SNMP access
- Standard five-year warranty

**The ADTRAN® ISU™ 512e is a standalone ISDN Service Unit that connects data terminal equipment (DTE) to the ISDN network.** The ISU 512e is specifically designed as a low-cost solution for applications such as video-conferencing, T1 backup, LAN/WAN connectivity, and high-speed file transfer.

Embedded SNMP & Telnet are available through a 10BaseT Ethernet port. Through the Management Information Base (MIB)-II standard and an ADTRAN-supplied enterprise MIB, the ISU 512e can be configured, monitored and diagnosed using standard SNMP network management programs such as HP Openview®, Netview® and SunNet® Manager.

The ISU 512e connects directly to the ISDN network using up to four Basic Rate ISDN (BRI) lines. By terminating four BRI circuits, the ISU 512e can create an aggregate bandwidth of up to 512 kbps which can be used to backup a T1 circuit.

Since ISDN is a switched digital service, bandwidth can be established and utilized on an as needed basis. Therefore, the ISU 512e is well suited for applications where a high bandwidth connection is needed to support bursty or infrequent traffic like medical image or large file transfer.

The ISU 512e supports synchronous data rates from 56 kbps to 512 kbps. At rates over 64 kbps, the ISU 512e supports BONDING Mode 1 and MLPPP utilizing from one to eight 64 kbps B channels. By supporting BONDING the ISU 512e interoperates with other BONDING-compatible inverse multiplexers and ISDN terminal adapters. By supporting MLPPP the ISU 512e interoperates with MLPPP compatible routers and bridges.

The ISU 512e can be configured and maintained, locally or remotely, using a VT100 terminal interface. For remote configuration, the unit can be accessed over the ISDN line.

The front panel of the ISU 512e consists of a two-line by 16 character LCD display, seven LEDs, and a 16-button keypad. This allows for configuring, dialing, testing, and monitoring of the unit without data terminal or test equipment.

Dialing from the unit is accomplished by using the front panel, stored numbers, DTR assertion, or V.25 bis in-band dialing. The RS-366 parallel dial interface is available for applications such as video-conferencing. The ISU 512e also supports dedicated 2B1Q services. This provides a dedicated point-to-point service (as in a limited distance modern or leased line application) with no dialing necessary.





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### Product Specifications

#### Network Interface

- Four RJ-45s for ISDN 2B1Q Basic Rate U-Interface
- Up to four BRIs  
(Maximum of eight 56/64 kbps B channels)

#### DTE Interface

- V.35
- 56 kbps to 512 kbps synchronous data rates

#### Dialing Selections

- Manual from front panel
- In-Band DTE Dialing: V.25 bis
- DTR assertion
- From VT100 terminal interface
- RS-366

#### Protocols

- Multilink PPP
- Clear Channel
- BONDING Mode 1

#### Switch Compatibility

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

#### Diagnostic and Testing

- Local and remote loopbacks, V.54 loopback, 2047 pattern (remote testing for BONDING mode only)
- Remote configuration

#### Display

- Two-line x 16-character LCD

#### Environmental

- **Operating Temperature:** 0° to 50°C, 32° to 122°F
- **Storage Temperature:** -20° to 70°C, -4° to 158°F
- **Relative Humidity:** Up to 95%, non-condensing

#### Physical

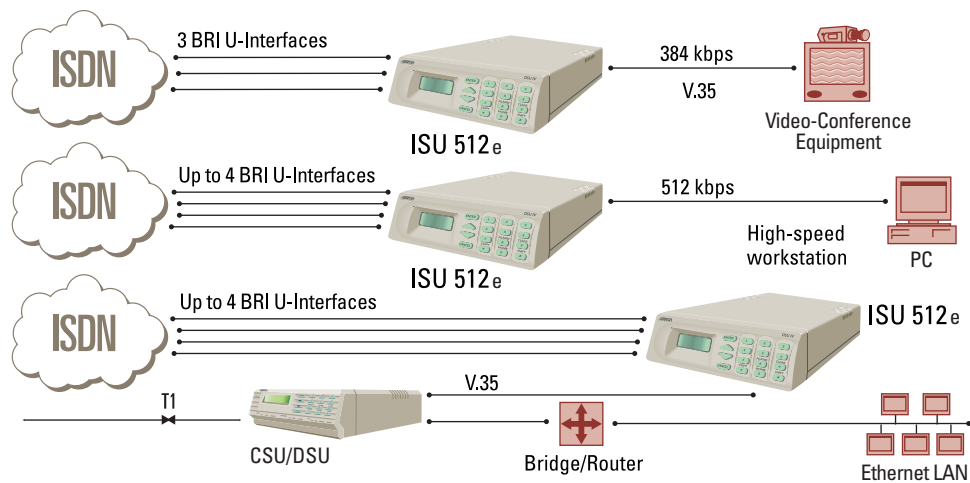
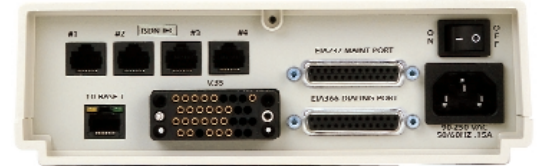
- **Dimensions:** 2.5" H, 7.875" W, 10.5" D
- **Weight:** 3 lbs
- **Power:** 115 vAC, 60 Hz, 8 watts maximum dissipation

#### Product Includes

- Four 7 foot RJ-45 telephone cables
- User Manual

### Ordering Information

Equipment	Part #
ISDN Ordering Codes are available to aid in ordering ISDN lines for this product.	
ISU 512e	1203086L1



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