



# EXPRESS 4200 SERIES

## ISDN/IDSL REMOTE ACCESS ROUTERS

### PRODUCT FEATURES

- Voice and LAN data over a single BRI
- Supports remote connectivity to corporate, telecommuter, SOHO, and Internet applications
- hi/fn<sup>®</sup> compression for higher data rates
- IP/IPX routing and dial-on-demand
- Server and client password protection, PAP, CHAP, EAP, and caller ID supported
- Support for NAT and DHCP
- Two analog ports support custom calling features
- 2x64 dialing allows routing to separate locations at the same time
- IDSL leased mode at rates of 144k
- Easy configuration from SNMP, Telnet or VT 100
- Standard 5 year warranty

The ADTRAN<sup>®</sup> Express 4200 series is a family of remote access routers that support data and voice over a single basic rate ISDN (BRI) line. The family provides a LAN connection for high-speed remote connectivity to corporate networks, telecommuters, SOHO, and Internet applications. Two analog ports are also available for users needing voice support over the same BRI line.

The Ethernet interface provides a high-speed connection that outperforms lower speed EIA-232 devices, such as traditional analog modems or terminal adapters. For even higher data rates, the units support hi/fn<sup>®</sup> (formerly STAC<sup>®</sup>) LZS<sup>™</sup> compression as a standard feature and are interoperable with Ascend<sup>®</sup> compression (used by most Internet providers).

The units support IP/IPX routing and will bridge all other protocols. These functions can be performed concurrently or individually. Extensive filtering capabilities allow for controlling of bridged traffic, conserving bandwidth, and securing the local LAN. Server and client password protection, PAP, CHAP, EAP, and caller ID achieve additional network security. Dial-on-demand allows connections to connect and disconnect automatically based on thresholds and user demands. The units are also capable of receiving two separate calls from two separate locations and merging the data through the Ethernet connection.

With IP addresses at a premium, the Express 4200 series products use Network Address Translation (NAT) to conserve addresses. NAT allows the Express 4200 series to simultaneously translate multiple computer LAN addresses to a single IP address. This feature allows customers to only pay for one IP address to access the Internet versus one IP address for every user. Additionally, the Express can assign this IP address dynamically.

For telecommuting applications, the Express 4210 offers two analog phone ports for connecting phones, fax, or modems. When transmitting data over two B channels (128k) and the phone rings, the Express 4210 will assign one of those B channels to voice as soon as the phone is picked up. Once the call terminates, both B channels will be reassigned back to the data transmission. The phone ports support all custom calling features such as caller ID, call waiting, call forwarding, hold, transfer, and conference calling.

The Express 4200 units support both dial-up and leased modes of operations. In a leased mode, the units use IDSL at rates up to 144k for applications such as Frame Relay concentration. Refer to the Frameport family for additional information on IDSL applications.

The units can be configured through or any VT 100 terminal via an EIA-232 maintenance port. Telnet and SNMP are also supported.

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# Product Specifications

## NETWORK INTERFACE

- RJ-45 for ISDN Basic Rate U interface (built-in NT1) 128,000 bps

## DIAL MODES

- 128,000 bps
- 2 x 64,000 bps

## LEASED MODES

- 128,000 bps
- 144,000 bps

## ISDN STANDARDS

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

## LAN INTERFACE

- Ethernet 10BaseT (RJ-45)
- IEEE 802.3

## ROUTING AND BRIDGING

- IP/IPX Routing
- IEEE 802.1D MAC Bridging and Spanning Tree Filtering Capabilities

## PROTOCOLS

- IP: TCP, RIP V1 & V2, UDP, ICMP, ARP, UDP Relay, SYSLOG
- IPX: IPX, RIP, SAP, SPOOFING, and SAP Filtering
- PPP: LCP, IPCP, BCP, IPXCP, CCP, BAP, BACP, Multilink
- Network Address Translation
- Frame Relay: RFC 1490
- Packet Filtering: Pattern IP, IPX, Bridge

## WAN OPTIMIZATION

- Dial-on-Demand
- Dynamic Bandwidth Management

## COMPRESSION

- CCP with hi/fn® compression
- Compatible with Ascend® compression
- Compatible with Windows® 95 compression

## SECURITY

- PAP, CHAP, EAP, Radius, Caller-ID, Password Protection

## ANALOG PORTS (4210 ONLY)

- Two RJ-11, REN = 3
- Rings up to 3 phones within 100 feet
- Supports Custom Calling features, Caller ID, and Message Waiting

## CONFIGURATION

- VT 100 terminal interface
- Local: EIA-232 interface
- Remote: Telnet or SNMP MIB-II and Enterprise MIB

## DIAGNOSTICS AND MAINTENANCE

- Loopbacks
- Ping Utility
- FLASH Upgradable TFTP
- Telnet Client & Server
- TFTP Client & Server
- DHCP/Boot Server, SNMP V1 MIB II, Enterprise MIB, TRAPS
- Performance Logs

## PHYSICAL

- Dimensions: 1.58" H, 6.25" D, 9.5" W
- Weight: 9.5 oz
- Power: 115VAC, 60Hz, 8W

## 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

## PRODUCT INCLUDES

- 110V Wall Mount Power Supply, User Manual, 6 Foot CAT-5 10BaseT Cable, 6 Foot RJ-45 Cable, ADTRAN Utility Software, DB9 to RJ45 Converter

# Ordering Information

EQUIPMENT	PART #
Express 4200, .....	1202070L1
Express 4210, (w/ pots) .....	1202070L2



Express 4200 Back



Express 4210 Back

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Specifications subject to change without notice.