EXPRESS 4100 SERIES

ISDN REMOTE ACCESS ROUTERS

The ADTRAN® Express 4100 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 compact unit for home Internet applications or office telecommuters. The family includes units with a built-in 4 port hub as well as support for simultaneous voice and data.

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® (formerly STAC®) LZS™ compression as a standard feature and are interoperable with Ascend® 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.

With IP addresses at a premium, the Express 4100 series use Network Address Translation (NAT) to conserve addresses. NAT allows the Express 4100 series to simultaneously translate multiple computer LAN addresses to a single IP address. This feature allows customers to pay for only 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 4110 and 4120 offer two analog phone ports for connecting phones, fax, or modems. When transmitting data over two B channels (128k) and the phone rings, the Express 4110 and 4120 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 are 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 units are also capable of receiving two separate calls from two separate locations and merging the data through the Ethernet connection (2x64 dialing).

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

PRODUCT FEATURES

- Voice and LAN data over a single BRI
- Small footprint
- Supports Internet and telecommuter applications
- Four port integrated hub
- hi/fn® 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
- Easy configuration from a web browser, SNMP, Telnet or VT 100
- Standard 5 year warranty

ADTRAN

Product Specifications

NETWORK INTERFACE
- RJ-45 for ISDN Basic Rate U interface 128 kbps

DIAL MODES
- 128 kbps, 2x64 kbps

LEASED MODES
- 128 kbps

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

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

ROUTING AND BRIDGING
- IP Routing
- IPX Routing
- IEEE 802.1D MAC Bridging

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
- *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, Password Protection, Caller-ID

ANALOG PORTS
- Two RJ-11 REN = 4
- Rings up to 4 phones within 100 feet
- Supports Custom Calling features, and Message Waiting

CONFIGURATION
- EIA-232 interface, VT 100
- Web browser or Telnet

DIAGNOSTICS AND MAINTENANCE
- Loopbacks
- Ping Utility
- FLASH Upgradable Locally
- Client & Server Telnet
- DHCP/Boot Server, SNMP V1 MIB II, TRAPS
- Performance Logs
- Web browser

PHYSICAL
- *Dimensions:* 1.45" H, 4" D, 6.63" W
- *Weight:* 12.8 oz
- *Power:* 110V, 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
- Express Unit, 110V Wall Mount Power Supply, User Manual on CD, 6 Foot CAT-5 10BaseT Cable, 6 Foot RJ-45 Cable, ADTRAN Utility Software, DB9 to RJ45 Converter

Ordering Information

EQUIPMENT	PART #
Express 4110	1200176L2
Express 4120	1200176L3

Express 4110 Back

Express 4120 Back