

Express 5110

Frame Relay Access

Product Features

- Network Connection via 56/64k DDS DSU/CSU or external FT1 DSU/CSU
- SNMP/Telnet Management
- RFC 1490 encapsulation for IP and LLC2
- SDLC local port spoofing
- IP support using SLIP, PPP-async, PPP-sync, with routing
- Frame relay concentrator mode which allows two frame relay devices to utilize a single network interface
- Prioritization scheme which ensures proper SNA response times in mixed protocol environment
- Frame relay management using ANSI, ITU, or LMI formats
- Easy to use VT100 interface for configuration
- Standard five-year warranty

The ADTRAN Express 5110[™] is a stand-alone frame relay access device (FRAD) that provides a cost-effective means of transporting multi-protocol data over frame relay networks. The Express 5110 provides an easy-to-use interface for customers migrating existing services or developing new applications for operation over frame relay networks.

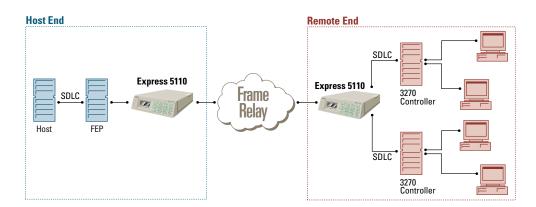
The Express 5110 provides two indpendent DTE interfaces for connecting non-frame relay devices to the frame relay network. The DTE ports support synchronous data rates from 2.4 to 512 kbps and asynchronous data rates from 2.4 to 38.4 kbps. Both EIA-232 and V.35 physical interfaces are available for connection to the customer's DTE equipment. The Express 5110's concentrator feature allows the connection of two frame relay devices to a single frame relay network interface.

The Express 5110 can be used with the integral 56/64 DDS DSU/CSU or an external DSU/CSU may be connected to the DCE interface. The DCE port supports network speeds up to 512 kbps and includes both EIA-232 and V.35 DCE interfaces.

The unit supports SNA, SDLC, Bisync, SLIP, IP, PPP (both synchronous and asynchronous), frame relay, BOP, and asynchronous protocols. The DTE ports can be configured independently, providing support for multiprotocol applications.

Embedded SNMP and Telnet are available in-band. SNMP is provided with support for RFC 1315 and MIB II. Through the Manage-ment Information Base (MIB)-II standard and an ADTRAN-supplied enterprise MIB, the Express 5110 can be configured, monitored, and diagnosed using standard SNMP network management programs such as HP OpenView®, NetView®, and Solstice SunNet Manager™.

Complete control, configuration, and diagnosis are available througha 16-position keypad and a two-line by 16-character LCD display. A VT100 terminal configuration and control mode is also available through the control port. Flash download capability is implemented for installation of new features and enhancements.







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Product Specifications

WAN Interface

DDS

■ Data Rates: 56 and 64 kbps ■ Line Interface: RJ-48S, 4-wire

■ Receiver Sensitivity: -45dB at all rates

DTE Interface

Asynchronous Rates: 2.4 to 38.4 kbps
Synchronous Rates: 2.4 to 512 kbps

■ Physical: DB-25

■ EIA-232

V.35 with adapter cable

DCE Interface

■ Synchronous Rates: 2.4 to 512 kbps

■ Physical: DB-25

■ EIA-232

■ V.35 with adapter cable

Protocol Support

Concentrator

Frame Relay

IBM Support

- SNA/SDLC with local spoofing
- SDLC/HDLC transparent
- SDLC-LLC2 translation
- Supports up to 20 SDLC PUs/port

LAN Protocol

- SLIP
- IP-PPP asynchronous or synchronous

Transparent

- Asynchronous transparent
- BOP transparent

Protocol Encapsulation

- IP (SLIP and PPP) and LLC2 protocols are encapsulated using RFC 1490 formats
- All other protocols use proprietary formats and require ADTRAN devices at each UNI

Configuration & Administration

- Local RS-232 craft interface
- Integral SNMP agent
- Telnet
- Remote config
- Built in ping utility
- DSU and CSU loopbacks

Agency Approval

■ Emissions: part 15 class A

■ Safety: UL 1950, CUL

■ Telecom: FCC part 68, industry Canada CS-03

Environment

Operating

■ 0° to 50°C (32° to 122°F)

Storage

-20° to 70°C (-4° to 158°F)

Relative Humidity

■ Up to 95%,non-condensing

Physical

Dimensions

■ 2.4" H, 8.0" W, 10.4" D

Weight

■ 4.5 lbs

Power

■ 115 vAC, 60 Hz, 7 watts

Product Includes

- Express 5110
- DDS network cable
- RJ to DB-25 adapter and cable for control port
- User manual

Ordering Information

Equipment	Part #
Express 5110	1202130L2
V.35 Adapter Cable Male (6ft)	1200193L1
V.35 Adapter Cable Female (6ft)	1200194L1



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