

ESU 120e

E1/FE1 Multiplexer

Product Features

- Embedded SNMP management via SLIP or 10BaseT interface
- Single DB-25 DTE interface supporting V.35, V.36, X.21/V.11, or EIA-530
- Integrated G.703 Drop interface for PBX connectivity
- Single option module slot supports up to four additional DTE ports
- Customer interface modules available for Frame Relay, High-Speed Data, and Dial Backup
- Integrated IP/IPX router available
- E1 HDSL version available
- Front panel, back-lit LCD for configuration and monitoring
- T-Watch PRO™, ADVISION™, and Telnet support for local and remote units
- Standard five-year warranty

The ADTRAN ESU 120e™ is a modular, full featured E1-Fractional E1 Multiplexer that supports a wide range of end-user applications. Providing a flexible data port and a G.703 Drop port, the ESU 120e supports international applications combining digital voice and high-speed data. For application flexibility, the ESU 120e can utilize most ADTRAN TSU family data modules in the single expansion slot. The embedded Simple Network Management Protocol (SNMP) allows for complete monitoring and control over the ESU 120e through both a SLIP and a 10BaseT Ethernet interface.

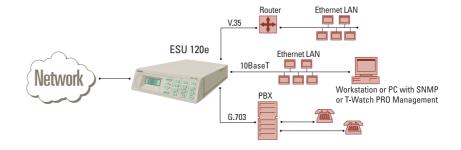
A key feature of the ESU 120e is the support of future growth through the unit's single expansion slot. End-user upgradeable expansion modules allow for the connectivity of up to four additional DTE devices. These expansion modules and plug-on modules allow for several interface port combinations, including the integration of Frame Relay over E1 facilities and the ability to implement Dial Backup in case of E1 line failure. To add to the unit's flexibility, an IP/IPX router module is available, allowing the support of integrated routing for branch office connectivity or Internet access. The large variety of available expansion modules allow the ESU 120e to tailor fit most any voice and data application requirements.

The unit has several built-in test functions for testing and trouble shooting the

ESU 120e and the E1 circuit. Users can effectively isolate problems within the E1 circuit by utilizing standard loopback tests, DTE tests, network interface tests and test patterns found in the ESU 120e. For additional troubleshooting, the unit supports external test equipment through bantam jack access. In case of an E1 failure or other major unit or network alarms, the ESU 120e supports SNMP Traps and Alarms to the host workstation and, if necessary, dial-outs to pagers.

The configuration and management of the ESU 120e is available through a variety of methods. The ESU 120e supports SNMP with Gets, Sets, and Traps functionality through a built-in agent. ADTRAN MIBs support management for the ESU 120e and all installed expansion modules. For access to SNMP features, the ESU 120e has both a 10BaseT Ethernet and a SLIP connection. In addition to SNMP, the unit utilizes the management capabilities found in optional software products from ADTRAN. For Windows® 95 or NT, the popular T-Watch PROTM software pack-age facilitates easy configuration and mon-itoring of the ESU 120e. For more complex network management systems, ADTRAN's ADVISION™ operates on an SNMP enterprise management system such as HP OpenView® and provides full GUI configuration and control via SNMP.







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E1/FE1 Multiplexer

Product Specifications

Network Interface

Line Rate

■ E1/FE1 (2.048 Mbps)

Electrical

■ G.703

Physical Interface

■ 75-ohm BNC and 120-ohm DB15

Framing

■ G.704

Line Code

■ HDB3

Input Signal

■ 0 to -30 dB

DTE Interface(s)

Data Rate

■ Nx56 or Nx64 kbps (N=1 to 30)

Electrical and Mechanical

Flectrical

■ V.35, V.36, X.21/V.11 or EIA-530

Physical Interface

■ DB25 connector

TSO Assignment

■ User Selectable

G.703 Drop Interface

Line Rate

■ E1/FE1 (2.048 Mbps)

Electrical

■ G.703

Physical Interface

■ 120 ohm balanced – DB15

Framing

■ G.704

Line Code

■ HDB3

Management Options and Interfaces

Control In / Control Out Ports

- Interface: EIA-232, PC serial port, modem or SLIP connection to external router
- Physical Connector: RJ-45, modular 8-pin

10BaseT Interface

- Interface: IEEE 802.3 compliant, 10 Mbps
- Physical Connector: RJ-45, modular 8-pin
- Service: SNMP, Telnet, ICMP, ARP, PING, T-Watch PRO™, ADVISION™

Testing and Troubleshooting

Loopbacks

- NI line, NI payload, Add/Drop line, Add/Drop port and DTE bi-directional loopback
- Test pattern generator and detector
- QRSS and 511 (selectable TSOs)
- All 0s and all 1s (transmit only)

Performance Monitoring

- Performance statistics based on G.821
- Reports: NI information stored for last 24 hours (15-minute increments)

Agency Approval

■ UL 1950, IEC 950, CISPR 22, and FCC Part 15 (Class A)

Environment

Operating Temerature

■ 0 to 50°C, (32 to 122°F)

Storage Temperature

■ -20 to 60°C, (-4 to 140°F)

Physical

Dimensions

■ 7.94 cm (3.125") H, 31.75 cm (12.5") D, 21.6 cm (8.5") W

Weight

■ 4 lb

Power

■ 90–250 vAC, 50/60 Hz

Product Includes

- One 8-pin to 8-pin modular cable
- Modular to female DB-25 adapter
- User Manual

Ordering Information

Equipment	Part #
ESU 120e	1200420L1
ESU 120e HDSL	1200421L1
X.21/V.11 Adapter Cable	1200282L1
V.35 Adapter Cable	1200285L1
DB-15 to BNC Adapter	120020911



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