

TDU 120e

T1/FT1 Rackmounted DSU/CSU with Embedded SNMP

Product Features

- T1/FT1 DSU/CSU
- 1U high 19" rackmount enclosure
- NEBS compliant
- V.35 interface operates at data rates of Nx56 or Nx64 where N=1 to 24
- Provides a base V.35 with DBU and DSX-1 interface
- Embedded SNMP management
- TFTP Support
- Slot accepts option modules used in ADTRAN's TSU units
- Ability to store two DS0 maps and switch configurations at predetermined times
- Front panel test and monitor jacks
- LEDs on the front panel indicate the status of each port
- 8 Kbps inband management channel
- Optional Management Software
- AC and DC versions available

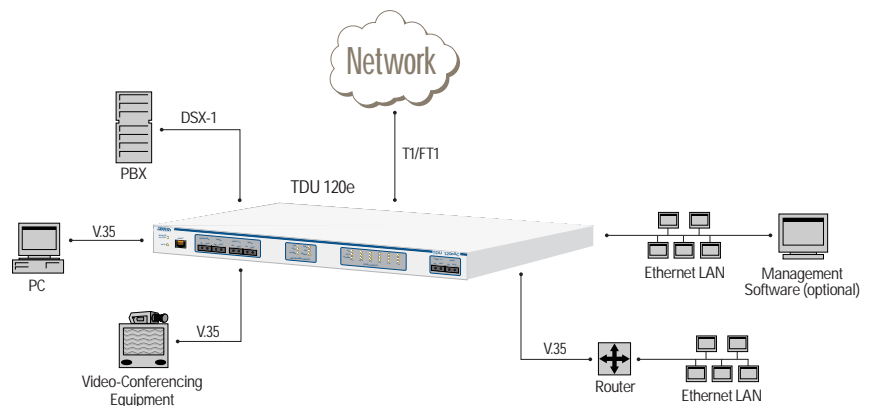
The TDU 120e (T1 Distribution Unit) is an intelligent, full-featured, NEBS compliant, T1 DSU/CSU in a 1U high 19-inch rack-mount enclosure. Designed to interface customers data terminal equipment (DTE) to T1 or fractional T1 services, the TDU 120e is fully compatible with D4 or ESF framing formats with AMI or B8ZS coding. When in ESF framing mode, the unit satisfies ANSI T1.403 and AT&T 54016 modes for utilization of the facility data link (FDL). It uses option modules identical to those used with ADTRAN® TSU™ units. The TDU 120e also provides complete monitoring and control of the T1 network with embedded simple network management protocol provided through both a SLIP and a 10BaseT ethernet interface.

A base V.35 and DSX-1 (PBX) interface is provided on the rear of the unit. The V.35 interface can be configured to operate synchronously at Nx56 or Nx64 data rates where N=1 to 24. The channels used can be selected at random. The DSX-1 interface is a

short haul T1 interface intended for connection to a PBX, cellular/PCS switch or similar device. The channels used by the DSX-1 port can also be selected at random.

To further add to the flexibility of the TDU 120e a slot on the rear of the unit is featured that accepts a single expansion module. A wide variety of application specific modules are available to provide flexibility and expandability.

Configuration and management of the TDU 120e is available through a variety of methods. The TDU 120e supports SNMP with gets, sets, and traps functionality through a built-in agent. ADTRAN® MIBs support management for the TDU 120e and all installed expansion modules. For access to SNMP features, the TDU 120e has both a 10BaseT Ethernet and a SLIP (EIA-232) connection. In addition to SNMP, the unit utilizes the management capabilities found in a variety of optional software products from ADTRAN.





CORPORATE OFFICE

ADTRAN, Inc.
901 Explorer Boulevard
P.O. Box 140000
Huntsville, AL 35814-4000

800 9ADTRAN

256 963-8000
fax: 256 963-8699
fax back: 256 963-8200
e-mail: info@adtran.com
web site: www.adtran.com

REGIONAL OFFICES

Chicago, IL 800 436-4217
Seattle, WA 800 390-1573
Washington, DC 800 794-9798

FIELD OFFICES

Atlanta, GA 800 289-0966
Chicago, IL 800 471-8655
Columbus, OH 888 865-2237
Dallas, TX 800 471-8648
Denver, CO 800 471-8651
Irvine, CA 800 788-5408
Kansas City, KS 800 471-8649
Los Angeles, CA 888 223-7668
Nashville, TN 888 223-7657
New York, NY 800 471-8657
Portland, OR 888 223-7660
Richmond, VA 800 689-9915
San Jose, CA 888 223-7655

INTERNATIONAL CONTACTS

Beijing, China
8610 8529-8895

Canada
1 877 923-8726

Hong Kong
52 2824-8283

Latin America
954 474-4424

London, U.K.
44 1252 626-730

Melbourne, Australia
61 3 9225-5114

Mexico/Caribbean
954 577-0357

Zürich, Switzerland
41 1 880-2777



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TL 9000

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Product Specifications

Network Interface

- **Line Rate:** T1 (1.544 Mbps)
- **Physical:** RJ-48C
- **Framing:** D4/ESF
- **Line Code:** AMI/B8ZS
- **ESF:** AT&T 54016 or ANSI T1.403
- **Input Signal:** 0 to -36dB
- **DS0 Assignment:** User selectable
- **T1 Transmit Timing:** Loop timed, internal, Base DSX-1, Base DTE, or secondary interface (if installed)

DTE Interface (DBU Capable)

- **Data Rate:** Nx56/64 Kbps (N=1 to 24)
- **Electrical:** CCITT V.35
- **Mechanical:** V.35-Winchester type 34 pin

Dial Backup

- Accessible on base V.35 DTE Port
- Requires optional V.35 "Y" cable
- **DBU Dialing:** DTR dialing
- **DBU Test:** Loopback to DCE, test dialup network, force dial backup

DSX-1 Interface

- **Line Length:** 0-655 ft
- **Physical:** RJ-48C
- **Framing:** D4/ESF
- **Line Coding:** AMI/B8ZS

Tests

- **Local:** Payload/Line (NI)
- **Remote:** Payload/Line (NI) V.54 (DTE)
- **Pattern:** 511 (selectable DS0s), QRSS (selectable DS0s)

Performance Monitoring

- **Error Counts:** ES, SES, UAS, % AS, % EFSEC, Alarms, error rates
- **Reports:** NI information stored for last
- 24 hours in 15 minute increments
- **PRMS:** ANSI Performance Report Messages (selectable)

Management Options

Control In / Control Out Ports

- **Interface:** EIA-232, PC serial port, modem or SLIP connection to 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™

Physical

- **Dimensions:** 1.7" H, 11.625" D, 17" W fits 1U high 19" rack space
- **Weight:** 7 lbs
- **Power**
120 vAC, 9 W (AC)
21-26 vDC 40 W (DC)
40-56 vDC, 40 W (DC)

Agency Approvals

- UL 1950, CUL
- FCC Part 15 (Class A)
- FCC Part 68
- GR 1089 and GR 63

Environment

- **Operating Temperature:** 0° to 50°C, (32° to 122°F)
- **Storage Temperature:** -20° to 70°C, (-4° to 158°F)

Ordering Information

Equipment	Part #
TDU 120e AC	1202156L1
TDU 120e DC	1202155L1
V.35 "Y" Cable	1200196L1

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