



# LOOP TA-2500 DSU

*FT1 CSU/DSU Series Standalone*



## FEATURES

- Features text
- DSU functionality integrated with an intelligent CSU in a compact package
- SNMP Management or terminal console port
- Connection to LAN/WAN, CAD/CAM, or Hosts to T1 Network Services
- Compliance with ANSI T1.403, AT&T PUB 54016 and 62411
- 2-line by 16-character LCD

## DESCRIPTION

Loop Telecom's Loop-T 2500 FT1 CSU/DSU series provide an economic solution to T1 network access cost, when full T1 or fractional T1 is needed. This product supports Extended Superframe Format (ESF) which makes possible continuous error checking, performance polling, and in-service diagnostics. With DTE port operating from 56 to 1536 Kbps, the Loop-T 2500 FT1 CSU/DSU enables users to interconnect LANs and WANs, CAD and CAM, video conference, mainframe hosts, and others.

The Loop-T 2500 FT1 CSU/DSU supports local control and diagnostics using 2-line by 16-character LCD and keypads. This enables users to execute in-service diagnostics and fault isolation. Ten LEDs on the front panel provide both line side and DTE side status indicators. Using optional SNMP Network Management Systems and Telenet connection, users can remotely control and diagnose Loop-T products from anywhere.

## SPECIFICATIONS

Network Line Interface (DS-1 Interface)  
*Line Rate* 1.544 Mbps ± 50 bps  
*Line Code* AMI / B8ZS (selectable)  
*Input Signal* DS-1 form 0 dB to -26 dB w/ALBO  
*Surge Protection* FCC Part 68 SubPart D  
*Framing* D4 / ESF (selectable)  
*Connector* RJ48C  
*Output Signal* DSX-1 w/ 0, -7.5, -15 dB LBO  
*Pulse Template* Per AT&T TR 62411

### Customer Equipment Interface

#### A. Single DTE Data Port

*Data Rate* N \* (56 or 64) Kbps (n = 1- 24)  
*Connector* EIA530(DB25)  
 (RS-232 or V.35 using adaptor cables or VRC-1)

#### B. DS0 Mapping

*Maps* 2 sets of DS0 map with provision for automatic switching between the 2 maps  
*Remote Send* Send active DS0 maps to remote site (in ESF mode only)

#### Performance Monitor

*Performance Memory* The last 24 hours performance in 15-minute intervals

*Monitor Registers* Line, user, and remote site (in ESF mode only)

*Performance Reports* Report includes Date & Time, Errored Second, Unavailable Second, Bursty Errored Second, Severe Errored Second, Controlled Slip Second, and Loss of Frame Count.

*Alarm History* Report includes Date & Time, Alarm Type (i.e. Master Clock Loss, Yellow Alarm, AIS, LOF, BPV, ES, CS), and Location (i.e. line, DTE).

*Alarm Queue* Contains 40 alarm records which record the latest alarm type, and date & time

*PRM* ANSI PRM (Performance Report Messages) (selectable)

### System Configuration Parameters

(All in non-volatile memory)

*Active Configuration* Current working configuration

*Stored Configuration* User stored configuration

*Default Configuration* Manufacture default configuration (permanent)

#### Console Port

*Connector* RJ-11 at Front Panel  
*Electrical* RS232 interface  
*Protocol* Menu driven VT-100 terminal, or Embedded SNMP (optional)

### Diagnostics Test Loopbacks

*Test Pattern*

*Idle Channel*

*Remote Loopback*

*DTE Channel Loopback* (V.54 or Loop proprietary)

### Front Panel Keypad

*LCD*  
*LED*

### Physical/Electrical Dimensions

*Power*  
*Temperature range*  
*Humidity*  
*Mounting*

### Compliance AT&T TR 54016

*AT&T TR 54019*

*AT&T TR 54019A*  
*AT&T TR 62411*

*ANSI T1.403-1989*

*FCC Part 15 Class A*  
*FCC Part 68*

Line Loopback, Payload Loopback, Local Loopback, and DTE Loopback  
 220 - 1 QRSS, 3-in-24, 1-in-8, 2-in-8, 1:1 patterns  
 Use of idle channel to perform QRSS diagnostic test  
 AT&T inband Loopback & Payload Loopback, ANSI Line Loopback, Payload Loopback (V.54 or Loop proprietary)

4 keys: left arrow, right arrow, ESC, and ENTER  
 2-line by 16-character LCD  
 10: Power, Line [SYNC/TEST, LOF, BPV, YEL/AIS], DTE [TEST, TD, RD, RTS, CLK-LOSS]

81/2 " x 21/4 " x 111/4 " (WxHxD)  
 100-240Vac, 5 Watts  
 0-50°C  
 0 - 95%RH (non-condensing)  
 Desk-top stackable, 19/23 inch rack mountable

Requirements for interfacing digital terminal equipment to services employing the ESF International ACCUNETâ; digital services description and network interface specifications  
 Addendum to TR54019 ACCUNETâT1.5 service description and interface specification  
 Carrier to customer installation - DS1 metallic interface  
 UL1459, CSA 22.2 No. 225  
 DOC-CS-03



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