

## ATL 1510 - 2X/4X T1/FT1 CSU/DSU (2-port & 4-port models)

### KEY FEATURES

- Two Models / 1510-2X (2 port) / 1510-4 (4 port)
- Both Models with Drop & Insert DSX-1
- Front Panel Test Jacks
- Front Panel LCD Programmable
- LED Status Indicators for Line and DTEs
- Time of Day Auto-reconfiguration of Bandwidth
- Full SNMP Support

### FLEXIBILITY

The **Raymar-Telenetics** ATL 1510-2X/4X series of Titan 2-port and 4-port SNMP managed T1/FT1 CSU/DSU(s) provide unsurpassed flexibility for public and private T1/FT1 networks and Frame Relay services. These new 1510 models increase your choice of 1510 models to four. The 2-port model can be expanded to a 4-port unit with an optional 2-port plug-in module. Both the 2-port and 4-port modules include a DSX-1 Drop-and-Insert port. The 1510-2X/4X is the right CSU/DSU for shared T1 applications.

### VALUE

Quality, serviceability, features, reliability, and price are all part of the value. At **Raymar-Telenetics**, we pride ourselves on delivering those benefits in this series of CSU/DSU(s), not forgetting the little things that make your life easier, like front panel test jacks. We are positive you will find the ATL 1510-2X/4X model CSU/DSU(s) are products you can count on today and tomorrow. That's real value!

### MANAGEABILITY

The **Raymar-Telenetics** ATL 1510-2X/4X is easily configured via the standard serial port or front panel LCD controls. Included is a separate port for SNMP. You get monitoring of ports, networks, and remote sites with critical information displayed including alarm information, date, and time. All ATL 1510 Titan models lead the industry with complete SNMP management including real time alarm messages providing graphical data for SNMP managers such as SNMPc, HP Openview, and IBM Netview.



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## PRODUCT SPECIFICATIONS

NETWORK LINE INTERFACE (T1 INTERFACE)	
LINE RATE:	1.544 Mbps +/-50bps
LINE CODE:	AM1/B8ZS (selectable)
INPUT SIGNAL:	DSX-1 from 0dB to -26dB
SURGE PROTECTION:	FCC Part 68 Sub Part D
FRAMING:	D4/ESF (Selectable)
CONNECTOR:	DB15P
OUTPUT SIGNAL:	DSX-1 with 0, -7.5, -15dB LBO
PULSE TEMPLATE:	Per AT&T TR 62411
CUSTOMER DTE INTERFACE	
<b>A. T1 DROP AND INSERT DSX-1PORT</b>	
LINE RATE:	1.544 Mbps +/-50bps
LINE CODE:	AM1/B8ZS (selectable)
CONNECTOR:	DB15, DS-1
FRAMING:	D/4/ESF/T1.403 (selectable)
INPUT SIGNAL:	DSX-1 from 0dB to -10dB ALBO
OUTPUT SIGNAL:	DSX-1 with 0-65 ft equalizer (selectable)
<b>B. DTE DATA PORT</b>	
NUMBER OF PORTS:	1510-2X=2 ports (optional 2 port expansion) 1510-4X=4 ports
CONNECTOR:	EIA530 (DB25F), includes DB25 to V.35 conversion cables
DATA RATE:	N*(56 or 64) Dbps (n= 1-24)
<b>C. DSO MAPPING</b>	
Two sets of DSO maps for DTEs and D&I with provision for manual and automatic switching between the two maps. Remote sending of DSO maps requires T1 Line to be operating in ESF Mode.	
PERFORMANCE MONITOR	
PERFORMANCE MEMORY:	Last 24 hour's performance in 15-minute intervals
MONITORING REGISTERS:	Line, User, and Remote Site (in ESF mode only)
PERFORMANCE REPORTS:	Reports include: Date & Time, Errored Second, Unavailable Second, Burst Errored Second, Severe Second, Controlled Slip Second, and Loss of Frame Count
ALARM HISTORY:	Contains 40 alarm records which record the latest alarm type, and Date & Time
PRM:	ANSI PRM (Performance Report Messages) (selectable)

CONSOLE PORT	
CONNECTOR:	DB-9
ELECTRICAL:	RS232 interface
PROTOCOL:	Menu driven VT-100 terminal, or embedded SNMP/telnet (optional)
DIAGNOSTIC TEST	
LOOPBACKS:	Line Loopback, Payload Loopback, Local Loopback, & DTE Loopbacks
TEST PATTERN:	3-in-24, 1-in-8, 2-in-8, 1:1, QRSS patterns
IDLE CHANNEL:	Use of idle channel to perform QRSS diagnostic test
FRONT PANEL	
KEYPAD:	Five keys: Left Arrow, Right Arrow, SELECT, ENTER, & Alarm Cut-Off (ACO)
LCD/LED:	Two-line by 40-character LCD, 9 status LEDs (Power, Line, D&I, DTEn, RLB, & ACO)
BANTAM JACK:	Six bantam jacks for Network, Equipment, & Monitor functions
PHYSICAL / ELECTRICAL	
DIMENSIONS:	17" W x 1.75" H x 12" D
POWER:	AC/optional -48 DC
TEMPERATURE RANGE:	32-120°F
HUMIDITY:	0-95% (non-condensing)
COMPLIANCE	
FCC Part 15 Class A	AT&T TR54016
FCC Part 68 Sub Part D	AT&T TR54019
UL1950 CSA 22.2 No. 950	AT&T TR54019A
DOC-cD-03	AT&T TR62411
ANSI T1.403-1989	
ORDERING INFORMATION	
MODEL #	DESCRIPTION
ATL-1510-2X	2-port with SNMP/Drop and Insert
ATL-1510-4X	4-port with SNMP/Drop and Insert
ATL-1510-2EXP	2-port expansion module
ATL-1510-4XDC	4-port with SNMP / 48 VDC



WARRANTY	
Raymar-Telenetics manufactured products are warranted against defects in hardware material and workmanship under normal use for one (1) year from date of original retail purchase. Defective product will be repaired or replaced, determination to be made by Raymar-Telenetics, at no charge. Repaired or replaced products are warranted for 90 days or for original warranty period, whichever is longer. Warranty extends to original end-user only.	



Manufactured in the USA by RAYMAR-TELENETICS