

## ATL 1510 - 1/1X T1/FT1 CSU/DSU Titan

### KEY FEATURES

- Rack or Standalone
- Full SNMP Support
- LCD and Terminal Interfaces
- T1/FT1 or T1/FT1 with optional DSX (Drop and Insert)
- Automatic Framing Conversion for D4 to ESF for DSX (Drop and Insert)

### FLEXIBILITY

The **Raymar-Telenetics** TITAN 1510 series of SNMP managed T1/FT1 CSU/DSUs provide unequalled reliability and flexibility. The 1510-1 and 1510-1X models are available in standalone or the new rack mount chassis. The 1510-1 is a single port model which includes a single V.35 (M.34) data port. The 1510-1X adds a DSX-1 "Drop-and-Insert" port. This DSX port allows you to configure your T1 to share the bandwidth capacity. It is perfect for applications like mixed voice and data traffic, allowing you to get the best from your T1 based service. Whether you are sharing the T1 for PBX and router traffic or T1 based video and SNA, the 1510 will bring it's wide array of features to support your application.

### INDUSTRIAL STRENGTH

The 1510-1 and 1510-1/1X are packaged in aluminum enclosures with steel front and rear panels, providing a durable enclosure for industrial environments. Front panel controls use dome switches protected by a polycarbonate cover. We also offer high temperature and humidity enhancements.

### 3 MODELS

The standard 1510-1 and 1510-1/1X are operated with 117VAC power. For applications requiring DC power or high temperature conditions, the -48VDC and +130HVDC models operate in temperatures up to 70°C. (These models are perfect for utility companies with SCADA traffic or test applications.)

### MANAGEMENT

These popular models feature separate ports for SNMP and local or remote maintenance. The 1510 series delivers the monitoring of ports, network facility and remote sites with critical information displayed with date and time stamped alarm information. Complete SNMP management with real time alarm message delivered to SNMP tools like ATwork and InfoVista as well as managers like HP Openview, IBM Netview, and SNMPc.



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**PRODUCT SPECIFICATIONS**

NETWORK LINE INTERFACE (T1 INTERFACE)	
Line Rate	1.544Mbps
Framing	D4/ESF (selectable)
Line Coding	AMI/B8ZS (selectable)
Connector, Input Signal	RJ48C, DS-1
Jitter & Pulse Template	Per AT&T TR 62411
Surge Protection	FCC Part 68 Sub Part D
Line Driver Mode	Operation up to 6000 feet
Synchronous Rate	N x 56 Kbps or N x 64 Kbps (1 ≤ N ≤ 24 0)
CUSTOMER DSX INTERFACE	
Line Rate	1.544Mbps
Framing	D4/ESF/54016/T1.403 (selectable)
Line Coding	AMI/B8ZS (selectable)
Connector, Input Signal	RJ48C, DS-1
Line Driver Mode	Operation up to 655 feet
CUSTOMER DTE INTERFACE	
DTE Data Port	One Port: V.35 (M.34) Auto Detect for EIA530/RS449
DSO Mapping	One Map: DTE-I, DSX Unique Channel Review
PERFORMANCE MONITOR (TI ESF only)	
Performance Registers	Last 24 hour's performance in 15 minute intervals
Seperate Registers	Overall status, Errored Seconds, Unavailable Seconds, Severely Errored Seconds, Bursty Errored Seconds, Time in Intercval, Valid Intervals
Event Log	Date and Time Stamped Significant Events plus alarms
PHYSICAL / ELECTRICAL	
Standalone Models Dimensions	8.5" (W) x 2.25" (H) x 11.25 (D)
Rackmount Models Dimensions	19"(W) x 10.5" (H) x 9" (D) (6RU High)

CONSOLE PORT	
Electrical, Connector	RS-232, DB-9 (lower)
Format	Asynchronous
Parity	None, Even, Odd
Data Bits	7, 8
Flow Control	XON/XOF
Data Rates	1200, 2400, 4800, 9600, 14,400, 19,200bps
SNMP PORT	
Electrical, Connector	RS-232, DB-9 (upper)
Protocol	SLIP
Format, Parity, Data Bits	Asynchronous, None, 8
Data Rate	1200, 2400, 4800, 9600, 19,200bps
MIB Compatability	MIB-II
DIAGNOSTIC TESTING	
Loopbacks	CSU, NI Line, Local & Remote Payload, Remote Line, DSX Remote, DSX Local, Serial Remote, Serial Local
Test Patterns	2047, QRSS, 3 in 24, I in 8, I:I
FRONT PANEL DESCRIPTION	
NI Section	Alarm & Line, BPV, Loop Status I's Density, Test Status
DSX Section	Alarm & Line, BPV Loop Status
DTE Section	Test Status. Loop Status, RTS, DCD
COMPLIANCE	
FCC Part 15 Class A	FCC Part 68 Sub Part D
ANSI T1.403-1989	UL1950
CSA 22.2 No.950	DOC-CS-03
AT&T TR54016, 54019, 5419A, 62411	
MODELS	
Standalone Models	
1510-1	One port V.35(M.34) with SNMP
1510-1X	One Port with SNMP and Drop & Insert
Rackmount Models	
1510-1-R	One Port V.35 (M34) with SNMP
1510-1X-R	One Port with SNMP and Drop & Insert
RM-5	Rackmount Chassis for 9 Units
TR-5	Power Module for RM-5



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

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