



DUAL T1/PRI

ATLAS 550 MODULE

PRODUCT FEATURES

- Two T1/PRI interfaces
- Built-in CSUs
- Configurable for DS-1, PRI or DSX-1 operation
- Maximum distance 6,000 ft.
- AT&T 54016, 62411 and ANSI T1.403 compliant
- D4 and ESF framing formats
- AMI and B8ZS line coding
- D-Channel to robbed bit signaling conversion
- ESF performance monitoring
- Local and remote loopback support
- Generates and detects QRSS test pattern
- Compliant with Lucent 4ESS/5ESS, Nortel DMS100 and National ISDN
- Lightning protection
- Flash upgradable
- Occupies a single slot in the ATLAS 550 chassis
- Hot swappable
- Standard 5-year warranty

The Dual T1/PRI module combines with other ATLAS components to implement a variety of WAN access products, including a T1 Bandwidth Manager, an ISDN Switch, and a Digital Access Cross-Connect System (DACS). The module provides two user ports, each of which can be independently configured to operate in T1 (DS-1 or DSX-1) or Primary Rate ISDN (PRI) modes.

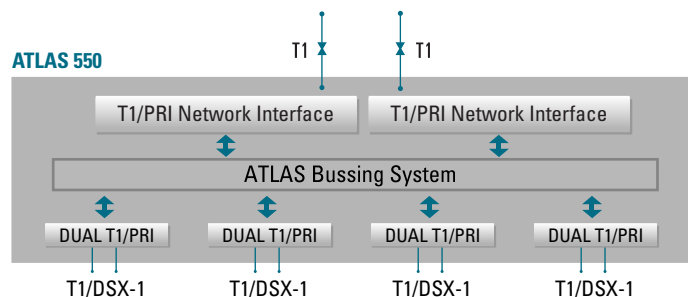
The Dual T1/PRI module can perform T1 or PRI conversion, translating between the robbed-bit signaling presented in a channelized T1 circuit and the D-channel signaling of a PRI circuit. When using the Dual T1/PRI module, ATLAS operates in a DACS mode supporting DSO time slot interchange and DSO grooming while preserving robbed bit signaling. ATLAS can be fully populated with T1/PRI modules to support a pure DACS application of 10 FT1 circuits or 4T1s.

The Dual T1/PRI Module can be used to interface with both the public network and end-user equipment.

Configuration of the T1/PRI module can be accomplished through a variety of mechanisms, including Telnet or VT100 Emulation. SNMP management is supported for alarm and event reporting.

Extensive T1 circuit monitoring is standard with the Dual T1/PRI module, including the ability to detect, store, and report all performance parameters specified in AT&T Technical Reference 54016. The module detects and reports alarm conditions associated with the circuit, including Loss of Signal, Red Alarm, Blue Alarm, Yellow Alarm, and for PRI circuits, D-Channel Synchronization.

The Dual T1/PRI module responds to standard loopback commands from the telephone company central office, both in-band commands and those sent through the Facilities Data Link. In addition, local and remote loopbacks (both line and payload) can be initiated from ATLAS. When testing the T1 circuit, the Dual T1/PRI module allows the user to select from a variety of test patterns, including all 1's, 0's, as well as a standard QRSS pattern. When sending the QRSS pattern, the Dual T1/PRI module records and reports the results of the testing to the user.



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

Asia Pacific/Australia
852-2824-8283 (Hong Kong)
Canada
800 232-6811
Caribbean/Latin America
954 746-5355
All other International inquiries
256 963-2500



I.S. EN ISO 9001

ADTRAN is an ISO 9001 registered company.



Printed in the U.S.A. on recycled paper.
61200314L1-8A January 2000
©2000 ADTRAN, Inc. All rights reserved.

Product Specifications

PHYSICAL INTERFACE

- 8-Pin Modular RJ-48C

LINE RATE

- 1.544 Mbps

FRAMING

- D4, ESF

LINE CODING

- AMI, B8ZS

LINE LENGTH

- 6,000 feet 24 gauge (DS-1) 655 feet (DSX-1)

DIAGNOSTICS

- Local Loopback-Line and Payload
- Remote Loopback-Line and Payload

TEST PATTERNS

- QRSS, All 1s, All 0s

ALARMS

- Loss of Signal, Red, Yellow, Blue, D-Channel

PERFORMANCE MONITORING

- ES, BES, SES, SEFS, LOFC, CSS, UAS, LCV, PCV, LES

SIGNAL MONITORING

LBO

- 0,7.5,15,22.5 dB
- 266,399,533,655 feet

SYSTEM TIMING

- Network, Internal, External

ROBBED BIT SIGNALING

- E&M Immediate, E&M Wink, Ground Start, Loop Start, SW56

CONVERSION

- Robbed Bit Signaling to ISDN D-Channel, AMI to B8ZS, D4 to ESF

SWITCH COMPATIBILITY

- PRI Mode: Lucent 4ESS/5ESS, Nortel DMS-100, National ISDN

SWITCH EMULATION

- Lucent 4ESS/5ESSs

AGENCY APPROVALS

- FCC Part 15, Class A, UL, and Canadian UL (CUL)

ENVIRONMENT

- Operating: 0° to 45°C (32° to 113°F)
- Storage: -20° to 70°C (-4° to 158°F)
- Relative Humidity: Up to 95%, non-condensing

POWER

- 6.5 Watts

PRODUCT INCLUDES

- Two RJ-48 to RJ-48 cables (15 feet)
- Two RJ-48 to RJ-48 Crossover cables (15 feet)
- Two RJ-48 to DB-15 Adapters
- User manual

Ordering Information

EQUIPMENT

PART

Dual T1/PRI Module1200314L1

ADTRAN is a registered trademark of ADTRAN, Inc.
Specifications subject to change without notice.

