

NT1/T400

ISDN NETWORK TERMINATION

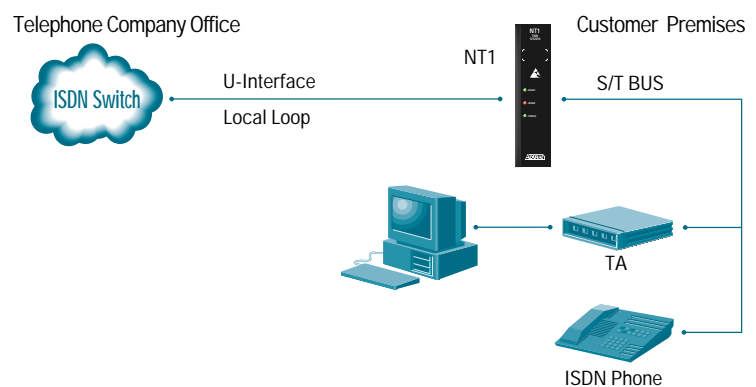
PRODUCT FEATURES

- Compatible with 2B1Q basic rate services and standard ISDN terminals
- Provides 2B+D basic rate services
- Conforms to ANSI T1.601-1992 and ANSI T1.605-1991
- Supports multiple switch vendors including LUCENT 5ESS®, NTI DMS-100™
- Mounts in a Type 400 multi-mount shelf or as a standalone unit
- Supports S/T Bus powering sources including phantom power and dedicated pair
- Provides automatic overcurrent protection for S/T power
- Supports US or European standard configurations (100 Ω or unterminated)
- Allows long and short passive bus arrangements
- Provides U-interface lightning protection
- Standard 5 year warranty

The ADTRAN Type 400 NT1 provides network termination for the 2B1Q basic rate interface between the customer terminal equipment and the ISDN network. Basic Rate ISDN consists of two 64 kbps B channels and a single 16 kbps D channel. The U-interface is used for connection to the ISDN network, while the S/T-interface is used for the subscriber terminal equipment. The U- and S/T-interfaces conform to ANSI and CCITT standards and perform all Layer 1 functions. The NT1 contains lightning protection circuitry to protect from lightning and line transients on the network interface. Three LED status indicators on the front panel aid in fault isolation.

The NT1 operates as a standalone unit or in a multiple Type 400 mounting such as the ADTRAN Type 400 Shelf, part number 1150028L1 or 1150024L1. The NT1 monitors the S/T-interface for an overcurrent fault condition. In the event of such a condition, the NT1 automatically limits the amount of current being delivered until the fault condition is removed.

The S/T-interface may have as many as eight passive bus devices connected to it as either multiple terminals within 50 meters of each other over the full 1,500 meter range of the interface, or multiple terminals of arbitrary spacing within 200 meters. Termination impedance options include the US standard of 100 Ω or the European unterminated configuration.



CORPORATE OFFICE

901 Explorer Boulevard
Huntsville, AL 35806

800 9ADTRAN
Local: 256 963-8000
Fax: 256 963-8699
Fax Back: 256 963-8200
http://www.adtran.com
email: info@adtran.com

SALES OFFICES

Irvine, CA
800 788-5408

Hartford, CT
800 471-8650

Denver, CO
800 471-8651

Atlanta, GA
800 332-6945

Chicago, IL
800 471-8655

Kansas City, KS
800 471-8649

Tabernacle, NJ
800 471-8652

New York, NY
800 471-8657

Philadelphia, PA
800 471-8656

Dallas, TX
800 471-8648

Washington, D.C.
800 471-8654

Canada
800 232-6811



ADTRAN is an ISO 9001
registered company.



Printed in U.S.A. on recycled paper
61212016L1-8D June 1998
©ADTRAN, Inc. 1998

Product Specifications

NT1 T400 INTERFACE

Network Compatibility

- Interface: ISDN and other digital services

Network Interface

- Line: 2-wire (Tip and Ring)
- Operating Mode: Full-duplex
- Data Rate: 160 kbps total; 144 kbps available to customer
- Signal Format: 2B1Q
- Output Amplitude: 2.5 volt, zero-to-peak
- Tx and Rx Source Impedance: Per ANSI T1.601-1992
- Receiver Sensitivity: Per ANSI T1.601-1992

Customer Interface

- Line: 4-wire (Tx and Rx pair)
- Operating Mode: Full-duplex
- Data Rate: 192 kbps total; 144 kbps available to customer
- Signal Format: 2B1Q
- Output Amplitude: 2.5 volt, zero-to-peak
- Tx and Rx Source Impedance: Per ANSI T1.605-1991
- Receiver Sensitivity: Per ANSI T1.605-1991

FACEPLATE INDICATORS

- Power: Power is ON
- Ready: Unit is ready for customer data
- Error: Terminal (S/T-interface) error detected

AGENCY APPROVAL

- FCC Approval: FCC part 15, Class B

ENVIRONMENTAL

- Operating: 0° to 50° C (32° to 122° F)
- Storage: -20° to 70° C (-4° to 158° F)
- Relative Humidity: Up to 95%, non-condensing

PHYSICAL

- Size: 5.625" H, 6" D, 1.375" W
- Weight: 10 oz
- Circuit Pack Mounting: Mounts in Type 400 equipment shelves such as ADTRAN Type 400 Shelf, part number 1150028L1 or 1150024L1

POWER

- -48 VDC
- 1.1 W dissipation
- Circuit pack: Sources S/T power to 12 watts
- Standalone: Sources S/T power to 7 watts

Ordering Information

EQUIPMENT	PART #
NT1 Circuit Pack	1212010
NT1 Standalone, 110 V	1212016L1

5ESS is a registered trademark of LUCENT
DMS-100 is a trademark of Northern Telecom

Specifications subject to change without notice.