

# T-BR1TE

## ISDN T-BASIC RATE TRANSMISSION EXTENDER

### PRODUCT FEATURES

- Extends range of ISDN service to remote locations
- Transports ISDN Basic Rate Interface (2B+D) information over T1 carriers
- Provides power for up to eight terminal equipment units
- Eliminates the need for an NT1 by delivering the ISDN S/T-interface directly to the TE
- Industry standard D4 channel unit plugs into ADTRAN ACT or BR1TE bank
- Complies with ANSI T1.605-1992 and CCITT I.430 specifications
- Supports multiple switch vendors including Lucent 5ESS®, Northern Telecom DMS-100™, and Siemens EWSD®
- Built-in maintenance and testability features
- Provides automatic overcurrent protection for the S/T Bus
- Industry leading 5 year warranty

The ADTRAN T-BR1TE is an economical way of offering Basic Rate ISDN by extending Basic Rate Service from an ISDN-equipped PBX or switch over T1 carrier lines to remote locations. Using the T-BR1TE, the S/T-interface can be deployed from a remote location serving a maximum of 3,000 feet, making it ideal for customer-owned networks.

The T-BR1TE is a standard D4 channel unit that plugs into a T1 multiplexer such as a D4 channel bank, SLC-96, ADTRAN ACT, or BR1TE bank. The T-BR1TE transports 2B+D information over T1 carriers by inserting the two B channels at 64 kbps and a single D channel at 16 kbps into three DS-0 time slots. The Basic Rate Interface information is transported from a T-BR1TE in the T1 multiplexer at the switch location, over the T1 carrier, to the remote T-BR1TE and T1 multiplexer. The T-BR1TE can be optioned as either the adjacent to the switch unit or the adjacent to the customer unit, reducing inventory requirements.

The T-BR1TE provides a standard 4-wire S/T-interface which operates at 192 kbps full-duplex and utilizes separate twisted wire pairs for transmit and receive signals. The S/T-interface conforms to the ANSI T1.605-1992 S/T-interface standard and the CCITT I.430 Layer 1 standard.

The T-BR1TE can supply power in a PS1 or PS2 arrangement for up to eight pieces of terminal equipment in a short or extended passive bus. This power is derived from the T1 multiplexer -48 VDC supply. PS1 (phantom power) provides power on the transmit and receive wires of the S/T-interface. PS2 provides power to the terminal equipment over an additional dedicated pair of wires. In both cases, the T-BR1TE monitors the S/T-interface for an overcurrent fault condition. In the event of such a condition, the T-BR1TE automatically limits the amount of current being delivered until the fault condition is removed.

The front panel of the T-BR1TE contains a display, controls, and Bantam test jacks for local test access.

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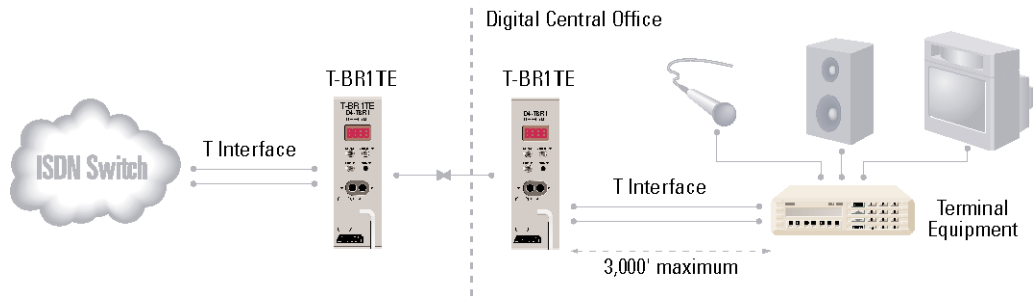
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## Product Specifications

### LOOP INTERFACE

- *Line:* 4-wire (Tx and Rx pair)
- *Operating Mode:* Full-duplex
- *Data Rate:* 192 kbps total; 144 kbps available to customer
- *Signal Format:* Alternate Mark Inversion, 100% pulse width
- *Output Amplitude:* 0.75 volt, zero-to-peak
- *Tx Source Impedance:* Per ANSI T1.605-1992
- *Rx Source Impedance:* Per ANSI T1.605-1992
- *Receiver Sensitivity:* Per ANSI T1.605-1992

### DS1 FACILITY INTERFACE

- Fully compatible with WECO D4 channel bank equipment

### NETWORK COMPATIBILITY

- *Interface:* ISDN and other digital service

### FACEPLATE CONTROLS AND INDICATORS

- *Controls:* B1/B2, LP/CR, Select, Test
- *Indicators:* Four-character display is used to select loopback address and display loopback status
- *Test:* Bantam test jacks for TPI 108/109 RT II or equivalent test sets

### MECHANICAL

- *Size:* 4.4" H, 10" D, 1.4" W
- *Weight:* 10 oz
- *Mounting:* Mounts in WECO D4 channel bank, SLC-96 terminals, ADTRAN ACT and BR1/8 BR1TE Bank

### POWER

- *-48V:* 250 mA, 1.35 watts dissipation (when supplying a maximum of 12 watts to terminal equipment)
- *+12V:* 45 mA nominal
- *-12V:* 1 mA
- *5V:*
  - 10 mA Display OFF
  - 45 mA Display ON

## Ordering Information

EQUIPMENT	PART #
T-BR1TE .....	1100019L1
BR1/8 BR1TE Bank.....	1150018L1

Specifications subject to change without notice.



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