

U-BR1TE ISDN 2B1Q INTERFACE





# **U-BR1TE**

#### **FEATURES**

- Conforms to ANSI T1.601-1992
- Plugs into WECO D4 Channel Bank, ADTRAN BR1/8 BR1TE bank, and ACT 1241
  - Designed for use in SLC-96 terminals
  - Basic Rate 2B+D service
  - Faceplate Bantam jacks for maintenance testing

- TR-NWT-000397 3 DS0 format and T1 facility performance monitoring
- Loopback features available on faceplate
- 18,000 ft. nominal range, mixed gauge
- U-BR1TE/MLT supports Mechanized Loop Testing

## RENEFITS

- Extends range of 2-wire U-interface using T carrier
- Suitable for both Central Office and customer premises environments
- Use of D4 bank adds flexibility and extends life of D4 equipment

## DESCRIPTION

The ADTRAN URBITE is a device which enables trapped of SDM basis Rate (SDA) information over 1 control lines. This is accomplished by the insertion of the hor 7th channels at 64 Maps and a single 10° channels at 16 Maps into 3 DS0 time slots. The URBITE provides a standard Urterface which openate as 100 Maps for 16 Maps line at 16 Maps into 3 DS0 mine slots. The URBITE improvides a standard Urterface which openate in 160 Maps for 16 Maps line 160 Maps line 160

The U-BRITE plugs into a single D4 channel slot. It is coccupies the lines solt in which it is inserted, and the next two adjacent time slots when delivering 28+D service. The U-BRITE meets the ones density requirement of the Transfer through the use of zero byte substitution and associated flags in the 'D' channel DS9 slot according to TR-NMT-00093.

Maintenance and testability is provided for on the U-BRTE's from panel. A four-character display provides an indication of Loop Activation, Out-of-Service, and Test. The Select button is used with the four-character display to determine which network element is to be looped back. The BEB which determines which charantel is to be looped back. The U-PC switch determines the direction of the loopback. The Test button, which activates the unifs test features, is recossed to prevent any renderent preferance.

The U-BHTEMLT contains the same capabilities with the JBHTEM with the addition of compatibility with Mechanized Loop Testing (MLT 3.0/ISDN) according to TR-NWT-000397, Issue 3, June 1992. When configured and installed in a SLC-96 channel bank, the U-BRTTEMLT allows testing the local loop cable drop using an Extended Pair Galin Tester (KPGTC).

### ISDN BR1/8 Bank (BR1/8)

The ADTAN BRIS BRIT Earth provides an alternative means of bussing the ADTAN U BRIT TO \*T.BRIT Earth provides and approvides exhaust the ADTAN U BRIT TO \*T.BRIT Earth provides central field to that and provides exhaust sides to accommodate up to eight U-BRITEs or \*T-BRITEs. Earth channel side contains three DSo timesite allowing all of the channel side to be used when delivering ISSIN Basic Rate (AD). Service. The BRIT's is an economical means to older ISDN Basic Rate Via T carrier. Mounting sides are provided for eight common equipment eards are APL POLOULY, RULL (UL), CULU, T.U., and CAU. It is available in 23-inch mounting.

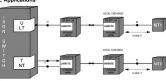
#### APPLICATIONS

The ADTRAN U-BRITE is suitable for use in both Central Office and oustemer premises environments. The use of a single wire pair for full-duplex operations greatly simplifies the administration of cable plant. The capability of the U-interface to serve mixed wire gauges, and nominal distances up to 18,000 ft. make it the universal choice for ISDN deployment.

The ADTRAN U-BRITE is ideally suited when the need arises to extend ISDN service beyond the normal servicing range. The ability to provide ISDN services is only limited by the range of available T carrier lines.

In instances where the 2B1Q U-interface card is not available in the digital switch, it is possible to use ADTRAN T-BR1TEs and U-BR1TEs in a mixed application. This application allows the 2B1QT1.601-1992 U-interface to be delivered from a digital switch which does not vet support it.

### U-BR1TE Applications



## U-BR1TE SPECIFICATIONS

Loop Interface: Lines 2-Wire (TIP and Ring)

Operating Mode: Data Rate: Full-duplex 160 kbps total; 144 kbps available to customer

2B10

Output Amplitude: 2.5 Volt, Zero-to-Peak Tx Source Impedance: As per ANSI T1.601-1992 Receiver Sensitivity: As per ANSI T1.601-1992

DS1 Facility Interface: Fully compatible with WECO D4 Channel Bank Equipment

Network Compatibility: ISDN and other digital service, according to TR-NWT-000397

Faceplate Controls and Indicators

## B1/B2

Indicators:

Bearer channel Select switch Loop or carrier direction Select switch Scrolls through valid loopback addresses on four-character display Activates selected loopback Four-character display is used to select loopback address and display loopback status.

Bantam test lacks for TPI 108/109 RT II or equivalent test sets

	Display		Interpretation	
ACTY	- IN	PROG	Activation in programs, the 2-wire loop is attempting to activate.	
LOGP		DOWN	The 2-wire loop is not activated.	
ADRE	LOOP	BACK	A distant unit with suddress # is in a loopback commended from this card.	
NTS	LOGP	BACK	The NT1 is in loopback as commanded from this card	
81		BACK	This card is correctly localing back channel S1 as commanded from a for unit.	
02	LOGP	BACK	This cord is currently books back channel 02 as commanded from a for unit.	
28+0	LOGP	BACK	This cord is correctly isoping back all channels as commanded from a far unit.	
BANK	CR -	TAIL	Bank confer full, the channel bank to not receiving data from the T confer.	
XMIT		SIDE	Transmit corrier side, forcing the injection of 66 ideas data into a Bearer channel from the front game! Sentem lack into the carrier direction.	
XMIT		SIDE	Transmit loss side, foreing the injection of 64 kbps data into a Bearst phases! from the front panel Bentam task into the loop direction.	
MADE	51	LPEK	Made ST locotock, manually forced the Season channel ST locotock in both the network and customer describes.	
MADE	88	LPSK	Made SP locaback, manually forced the Review channel RS locations to both the network and customer directions.	

Mechanical: 4.4" H x 10" D x 1.4" W

10 oz. Mounts in WECO D4 Channel Bank/SLC-96 terminals

Power: **Current Drain** On-Card Dissipation

-48 V: 40mA (in LUNT mode) 1.95 W maximum 5V: 5mA Display OFF (normal operating mode) 45mA Display ON

ORDERING INFORMATION: The part numbers for the U-BR1TE are provided below.

Part Number Equipment U-BRITE 1100020L1 1100020L2 U-BRITE MLT BR1/8 BR1TF BANK

