SLC-5 U-BR1TE

ISDN Range Extension

PRODUCT FEATURES

- Conforms to ANSI T1.601-1992
- Built in NULL function
- Compatible with AT&T SLC® Series 5 COT and RT channel banks
- Basic Rate up to 2B+D service
- Three DS0 format per TR-NWT-000397
- T1 facility performance monitoring per TR-NWT-00397 and TR-NWT-000829
- Loop and carrier status LEDs
- Optional sealing current
- 18,000 feet nominal range, mixed gauge
- Compatible with AT&T SLC Series 2000, SLC Mode 1 operation
- Standard 10 year warranty

The ADTRAN SLC-5 U-BR1TE is an ISDN range extension product for delivering Basic Rate ISDN to remote locations across SLC Series 5 Digital Loop Carrier (DLC) systems. In addition, the U-BR1TE will operate in SLC Series 2000 DLC configured for SLC Mode 1 operation. The SLC-5 U-BR1TE provides a standard U-interface that operates at 160 kbps full-duplex over a single twisted pair. The U-interface converts to a three DS0 format, allowing transportation of 2B+D data as well as end-to-end maintenance, performance, and test information. The ADTRAN SLC-5 U-BR1TE operates in both Central Office Terminals (COT) and the Remote Terminals (RT); conforms to applicable standards and requirements; and performs all Layer 1 maintenance and performance monitoring functions per TR-NWT-00397 and TR-NWT-000829. The SLC-5 U-BR1TE provides a distinctive metallic DC test signature for identifying the LT or NT operating mode and is compatible with the Metallic Loop Test (MLT).

The SLC-5 U-BR1TE occupies one physical slot in a SLC-5 channel bank. To deliver 2B+D service, the SLC-5 U-BR1TE uses the DS0 time slots associated with the occupied physical slot and the required remaining time slots of the adjacent physical slot. SLC-T U-BR1TE provides a NULL function which allows an older SLC-5 channel bank to provide 2B+D ISDN without upgrading the common equipment. The SLC-5 U-BR1TE meets the 1s density requirements of the T1 carrier system through zero byte substitution and associated flags in the D channel DS0 time slot as specified in TR-NWT-000397.

Maintenance, testing, and status information is displayed on the front panel. An RJ-45 jack provides DS0 access to B1 and B2 for testing with standard digital test sets. The rotary Address Select Knob along with a DS0 test set allows for local B1 or B2 loopback test access of up to six ISDN network addresses and the NT1 in the network-to-customer direction. The CR and LP indicators provide instantaneous synchronization and loopback status for the T1 carrier facility (CR) and the U-interface (LP) and the status of the Layer 1 activation is provided with ACT indicator. The ADTRAN SLC-5 responds to network initiated mp-eoc commands including B1, B2, and 2B+D loopbacks.

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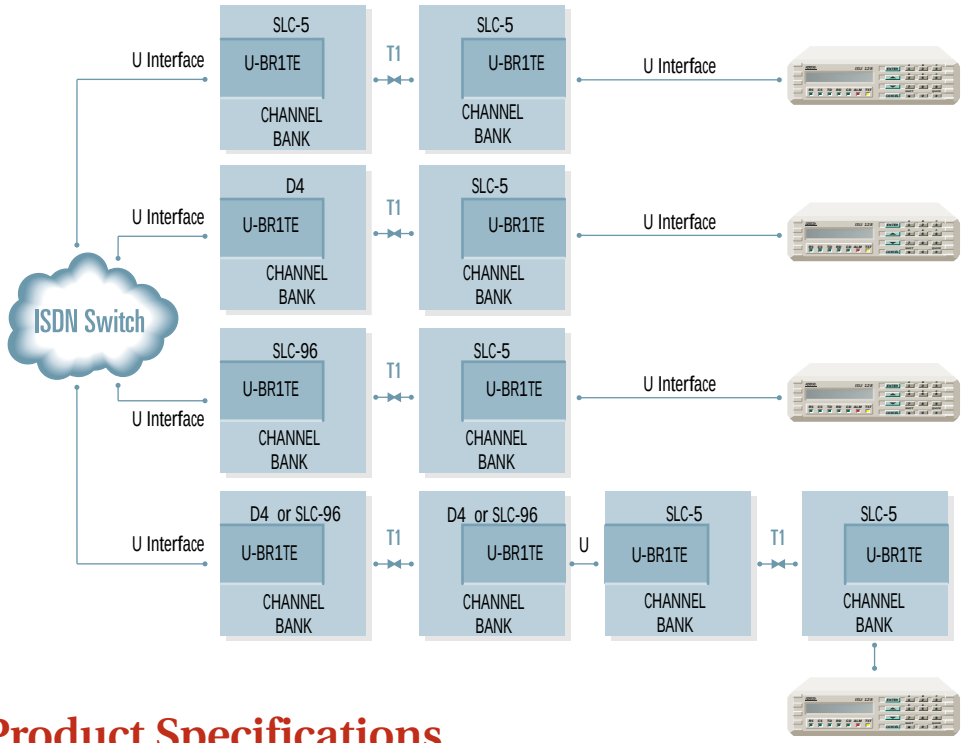

Product Specifications

LOOP INTERFACE

Line
- 2-wire (Tip and Ring)

Operating Mode
- Full-duplex

Data Rate
- 160 kbps; 144 kbps available to customer

Signal Format
- 2B1Q

Output Amplitude
- 2.5 volt, zero-to-peak

TX and TX Source Impedance
- Per ANSI T1.601-1992

Receiver Sensitivity
- Per ANSI T1.601-1992

DS1 Facility Interface
- Fully compatible with AT&T SLC Series 5 COT and RT channel banks

FACEPLATE FEATURES

Controls
- Eight-position rotary address switch for loopback of downstream network elements

LEDs
- CR status indicator - indicates synchronization and loopback status of carrier side
- LP status indicator - indicates synchronization and loopback status of loop side
- ACT BIT - indicates ACT BIT exchange between NT1 and Network

Jacks
- RJ-45 jack for DSO access to B1 and B2 for TPI 108/109 or equivalent test sets

ENVIRONMENTAL

Operating Temperature
- -40°C to 70°C (-40°F to 158°F)

Storage Temperature
- -40°C to 85°C (-40°F to 185°F)

Relative Humidity
- Up to 95%, non-condensing

PHYSICAL

Dimensions
- 3.75" H x 0.65" W x 10.69" L

Weight
- 7 oz, nominal

Power
- Current drain: 40 mA (in LUNT mode)
- On-card dissipation: 1.95 W, maximum

Ordering Information

EQUIPMENT	PART #
SLC-5 U-BR1TE with NULL Function	1102040L2
SLC-5 Blank Card	1102041L1

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