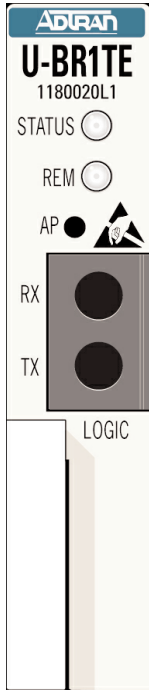


U-BR1TE

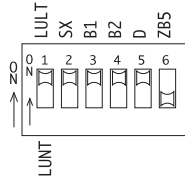
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DESCRIPTION

The U-BR1TE is a line card that plugs into a single channel slot of a Total Access 750/850/1500 channel bank. It provides an ISDN U-interface and allows the transport of Basic Rate 2B+D information over T1 carriers. The U-BR1TE features:

- 18kft nominal range in mixed gauge wire
- ISDN 2B1Q interface
- Internal testing of individual B channels
- All Layer 1 maintenance functions



TURN UP STEPS

- 1 Unpack the TA 750/850/1500 U-BR1TE card and inspect for damage. If damage is apparent, refer to your carrier or supplier for remedy.
- 2 Verify SW1 is provisioned properly for your application. Refer to the table in this job aid for default provisioning and other provisioning options. Provisioning can also be accomplished through BCU/SCU craft interface. Refer to BCU/SCU Installation and Maintenance practice or Job Aid. Make changes to SW1 options as necessary.

SW SETTINGS

| Switch | Label | Function/Description |
|--------|-----------|---|
| SW1-1 | LULT/LUNT | Termination Mode *ON...LULT Mode (RT Typical) OFF...LUNT Mode (COT Typical) |
| SW1-2 | SX | Sealing Current *ON...DC sealing current provided OFF...DC sealing current not provided |
| SW1-3 | B1 | Service Level Station |
| SW1-4 | B2 | |
| SW1-5 | D | |
| | Service | SW1-3 (B1) SW1-4 (B2) SW1-5 (D) |
| | Option | |
| | 2B+D | *ON *ON *ON |
| | 2B | ON ON OFF |
| | B1+D | ON OFF ON |
| | B2+D | OFF ON ON |
| | B1 | ON OFF OFF |
| | B2 | OFF ON OFF |
| | D | OFF OFF ON |
| SW1-6 | ZBS | Zero Byte Substitution ON...Enable ZBS *OFF...Disable ZBS |

* Factory Default

- 3 Insert U-BR1TE card into a TA 750 chassis slot 1-6, TA 850 chassis slot 1-6, or TA 1500 chassis slot 1-24. To insert, hold the U-BR1TE card by the faceplate while supporting the bottom edge of the card. Align the card edge with the guide groove in the TA 750/850/1500 chassis. Insert into chassis until the edge card connector seats firmly into the chassis backplane. Lock the unit in place by pushing in on the locking lever.

- 4 Monitor Status LED for operational status.

STATUS LEDS

| Status | Symbol | Color | Description |
|--------|------------|--------|---|
| OFF | ○ | | Indicates both loop and carrier synchronization have been established |
| RED | ● | RED | Solid indicates neither loop nor carrier synchronization has been established. |
| | ★ | | Flashing once every two seconds indicates loop synchronization has been established, but carrier synchronization has not. |
| | ★★ | | Flashing twice every second indicates carrier synchronization has been established, but loop synchronization has not. |
| GREEN | ● | GREEN | Indicates that Layer 1 is established from the ISDN switch to the customer ISDN terminal equipment. |
| YELLOW | ● | YELLOW | Solid when a front panel test has been initiated or when responding to 2B+D loopback request. |
| | ★ | | Flashes once every two seconds when responding to a B1 loopback request. |
| | ★★ | | Flashes twice every two seconds when responding to B2 loopback request. |
| REM | ● | GREEN | Indicates the unit has been provisioned by the BCU/SCU. |
| AP | Pushbutton | | Alternative provisioning switch. Changes provisioning source from remote to manual. |

- 5 Provisioning - The TA 750/850/1500 supports two types of provisioning modes, local and remote. Local provisioning results in the unit operating as defined by the on board switches. Remote provisioning, if chosen, results in the unit operating as defined by the system controller menu settings (on-board switches are ignored). The operational mode is indicated by the REM LED and can be changed by activating the AP (Alternate Provisioning) faceplate switch

- 6 Connect VT 100 compatible terminal to BCU/SCU faceplate ADMIN port. The ADMIN port issued for provisioning, testing, and performance monitoring functions.

7a. Connect DB9 cable

7b. Run terminal emulation program

7c. If using Windows Hyperterminal, open by selecting Programs/Accessories/Hyperterminal

7d. Login and navigate through ADMIN port menu structure

Note: To ensure proper display background, select VT 100 Terminal Emulation under settings.

■ For a complete Installation and Maintenance Practice: 877.457.5007, Document 442.

For the TA1500 Chassis Job Aid: 877.457.5007, Document 445.

Please have your fax number available. ■

7 Navigate through menus to perform desired function.

Note: To traverse through the menus, select the desired entry and press Enter. To work backwards in the menu, press ESC (escape key).

8 Testing – Test functions can be activated through front panel Bantam jacks, the ADMIN port, or inband loopback sequences.

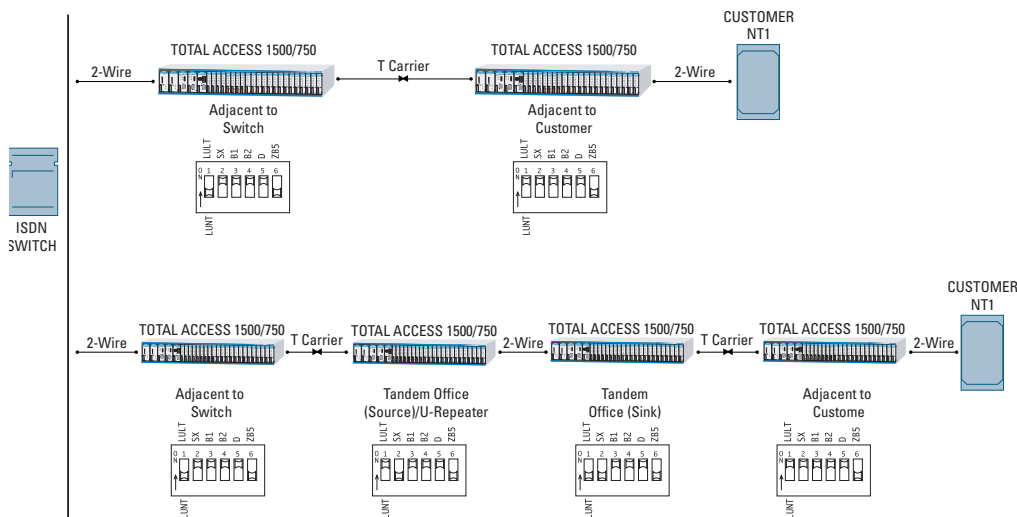
TESTING

- Loopback tests – initiated from either the ISDN switch or the faceplate via the local craft interface in the Network-to-Customer direction.
- Point-to-point test – initiated via the local craft interface toward either the U-interface or the T1 carrier interface.
- Local Loopback – initiated from the local craft interface for either bearer channel.
- Leased Mode Testing – responds to independent network-issued OCU and CSU latching loopback sequences for B1 and B2, when configured Adjacent-to-Customer and the D channel is disabled.

CONNECTIONS

- All connections are made through the 50-pin amphenol connector on the back panel TA 750/850/1500.

APPLICATIONS



MLT3.0/ISDN CHANNEL TEST (TA 1500 ONLY)

Channel Test (LUNT Mode)

Upon detection of the Test Initiative Voltage (116Vdc behind 8kΩ applied to Tip with Ring open) the LUNT does the following:

- The channel unit sends a Channel Test mp-eoc message downstream to the LUNT, signaling the request for a MLT channel test.
- The channel unit notifies the BCU/SCU that a MLT test is underway.
- The unit sends a 333.3 Hz tone between the tip and ring leads. This tone is compliant with TR-TSY-OO465.
- When the Test Initiative Voltage is removed, the active test status indication to the BCU/SCU is removed, a Return to Normal mp-eoc message is sent to the LUNT, and the U-Interface attempts re-synchronization.

Channel Test (LULT Mode)

Upon receipt of the Channel Test mp-eoc message, the LULT does the following:

- The channel unit notifies the BCU/SCU that a MLT test is underway.
- The LULT connects the bypass pair. This connects the customer drop to the common equipment through TEST_R and TEST_T. The set-up sequence is complete.
- Upon completion of the automatic test the bypass relay de-energizes.
- The channel unit then attempts to re-synchronize the U-interface between the LULT and the NT1

BANTAM TEST JACKS

- Accommodate DS0 Logic Testers such as the TPI 108/109 RT II to perform upstream and downstream testing.

TELECOMMUNICATIONS CODES

This product is intended to be installed in products providing a Type “B” or “E” enclosure, and in a Restricted Access Location.

| CODE | INPUT | OUTPUT |
|------|-------|--------|
| PC | C | C |
| TC | - | X |
| IC | A | - |

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by ADTRAN could void the user’s authority to operate this equipment.

WARRANTY

Warranty for Carrier Network products manufactured by ADTRAN and supplied under Buyer’s order for use in the U.S. is ten (10) years. For a complete copy of ADTRAN’s U.S. Carrier Network Equipment Warranty: (887) 457-5007, Document 414.

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