

U-BRITE

OLE: SIGEXOK



DESCRIPTION

The U-BRITE is a line card that plugs into a single channel slot of a Total Access 750/650/1300 channel bank. It provides an ISDN U-interface and allows the transport of Basic Rate 28-D information over T1 carriers. The U-BRITE features:

- 16kbit nominal range in mixed gauge wire
- ISDN 2B1Q interface
- Internal testing of individual B channels
- All Layer 1 maintenance functions



TURN UP STEPS

- Unpack the TA 750/650/1300 U-BRITE card and inspect for damage. If damage is apparent, refer to your carrier or supplier for remedy.
- 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 RCU/SCU craft interface. Refer to RCU/SCU Installation and Maintenance practice or job AID. Make changes to SW1 options as necessary.

SW SETTINGS

Switch	Label	Function/Description
SW1-1	1A/1B/1C/1D	Termination mode
		*SM...LUT Mode (BT Type)
		OFF...LUT Mode (BT Type)
SW1-2	2A	Sealing Control
		*ON...JCC testing current provided
		OFF...JCC testing current not provided
SW1-3	3A	Service Level: Station
SW1-4	4A	
SW1-5	5A	
		Service
		SW1-5
		SW1-4
		SW1-5
		Options
		25+6
		25
		01+6
		02+6
		01
		02
		0
SW1-6	6A	Zero Byte Substitution
		ON...Enable ZBS
		OFF...Disable ZBS

* Factory Default

- Insert U-BRITE card into a TA 750 channels slot 1-6, TA 650 channels slot 1-6, or TA 1300 channels slot 1-24. To insert, hold the U-BRITE card by the faceplate while supporting the bottom edge of the card. Align the card edge with the guide groove in the TA 750/650/1300 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.

- Monitor Status LED for operational status.

STATUS LEDS

Status	LED	Indication
STATUS	OFF	Indicates both loop and carrier synchronization have been established.
	RED	Solid indicates neither loop nor carrier synchronization has been established.
	YELLOW	Flashes once every two seconds indicates loop synchronization has been established, but carrier synchronization has not.
	YELLOW	Flashes twice every second indicates carrier synchronization has been established, but loop synchronization has not.
	GREEN	Indicates that Layer 1 is established from the ISDN switch to the customer ISDN terminal equipment.
	YELLOW	Solid when a frame protocol has been initiated or when responding to R1-D loopback request.
	YELLOW	Flashes once every two seconds when responding to a R1 loopback request.
	YELLOW	Flashes twice every two seconds when responding to R2 loopback request.
REM	GREEN	Indicates the unit has been provisioned by the RCU/SCU.
AP	Provision	Alternative provisioning switch. Changes provisioning source from remote to manual.

- Provisioning - The TA 750/650/1300 supports two types of provisioning: manual, 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.

- Connect VT 100 compatible terminal to RCU/SCU faceplate ADMIN port. The ADMIN port is used for provisioning, testing, and performance monitoring functions.

7a. Connect D19 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: RT1 457-5867, Document 442. For the TA1000 Channel Job Aid: RT1 457-5862, Document 445. Please save your fax number: 800-830-8300



CAUTION!

READ THE SAFETY AND WARNING INFORMATION BEFORE USING THIS EQUIPMENT.

7 Navigate through menus to perform desired function.

Note: To traverse through the menus, select the desired entry and press Enter. To scroll 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 BCON switch or the facplate 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.
- Learned Mode Testing – responds to independent network issued BCU and CSU latching loopback sequences for H1 and H2, when configured Adjacent-to-Customer and the D-channel is disabled.

CONNECTIONS

- All connections are made through the 56-pin spherical connector on the back panel TA 7581859/7590.

APPLICATIONS

MULTI-TON CHANNEL TEST (TA 1500 ONLY)

Channel Test (LJLT Mode)

Upon detection of the Test Initiative Voltage (110Vdc behind H&G applied to Tip with Ring open) the LJLT does the following:

- The channel unit sends a Channel Test mp-enc message downstream to the LJLT, signaling the request for a MET channel test.
- The channel unit notifies the BCU/SCU that a MET test is underway.
- The unit sends a 333.3 Hz tone between the tip and ring leads. This tone is compliant with TR-TS-00495.
- When the Test Initiative Voltage is removed, the active test status indication to the BCU/SCU is removed, a Return to Normal mp-enc message is sent to the LJLT, and the U-interface attempts re-synchronization.

Channel Test (LJLT Mode)

Upon receipt of the Channel Test mp-enc message, the LJLT does the following:

- The channel unit notifies the BCU/SCU that a MET test is underway.
- The LJLT connects the bypass path. This connects the customer drop to the common equipment through T3ST, H and T3ST, 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 LJLT and the NTI.

BANTAM TEST JACKS

- Accommodate 280 Logic/Tests such as the TPI 168/169 RT II to perform upstream and down stream testing.

TELECOMMUNICATIONS CODES

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

CODE	INPUT	OUTPUT
FC	G	C
TC	-	A
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 Dyer'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 614.

