



BR1/10 2X

CL# 04M02200

COMMONS/OPTIONS

- BR1/10 Common Unit** required for each side of the 2X channels
IS-LIU - Combination PWR/LIU P/N 1150079L1 CL# 04M02200A
 This unit replaces the individual PWR and LIU cards (shown).
- PWR - Power/Alarm Unit** P/N 1150078L2 CL# 04C1002AA
 This common unit has no options switches to set, verify the 1 AMP fuse is properly seated.
- LIU - Line Interface Unit** P/N 1150079L2 CL# 04C1002AA
 The LIU has no option switches to set. The DBS connector and rotary switches are used for testing only.
- BCU - Bank Controller Unit** P/N 1150088L1 CL# 04C1002AA
 The BCU is the only common unit with option settings on the printed circuit board.

BCU Option Settings:

- S1-1 through S1-4 DSX-3 Line Build Out 0-1330/133-266/266-399/399-533/533-665
 S2-1 Line Code Format: BRS/AMR
 S2-2 Framing Format: IS413P
 S2-3 Biscuits Lookback Selection: PROLOAD/LINE
 S2-4 and S2-5 Timing Mode: EXTERNAL/LDCAL/LDOOP/CAO
 S2-6 Bank Mode: BDR/L/IDCS
 S2-7 through S2-9 Terminal Mode: D4/ D12/SLE Mode: D12/D/SLE Mode: 3 E4/ D12

Mini U-BRI TE Switch Options

ON	OFF
SW1 B1 SER. ON	B1 SER. OFF
SW2 B2 SER. ON	B2 SER. OFF
SW3 D SER. ON	D SER. OFF
SW4 SC ON	S.C. OFF
SW5 LUNT	LUNT
SW6 LUNT	LUNT
SW7 2RS ON	2RS OFF

Fluoreside LED on mini U-BRI TE
 Red-Indicates no sync to ISDN Bank/NT1
 Green- Indicates sync to ISDN Bank/NT1

Mini U-BRI TE Compatibility Access Cards

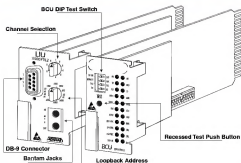
Mini BR1/10 ISDN U-BRI TE	1150077LX
CL# 04C1002AA (Shown)	
Mini BR1/10 TR ISDN U-BRI TE	1152103LX
CL# 04C1002AA	
Mini BR1/10 TR DSX-3P	1151091LX
CL# 04C1002AA	
Mini BR1/10 DSX-3P	1150123L1
CL# 04C1002AA	

BCU MANUAL TESTING DIP SWITCHES

- LB ON/OFF** Enables and disables DS1 lookbacks for REMOTE/LOC direction depending on switch setting below
- REMOTE/LOC** REMOTE in ESF will initiate a lookback to the far-end BR1/10 side when LB is switched to ON
 REMOTE in SF will initiate a lookback at the local BR1/10 side when LB is switched to ON
- DSO/DS1** When set towards DS1 controls the REMOTE/LOC lookback direction and initiates lookback with LB ON/OFF switch
 When set towards DS2 controls the B-IS2 channel selection. The TEST recessed button initiates test selected on LIU rotary switches. This option is normally in the DSO position once the BR1/10 side is in service
- B1/B2** When the switch above is in the DS2 position, B1 and B2 selects the appropriate B-Channel to be tested

BR1/10 Slot to Channel Bank Slot Cross-Reference Compatibility

SLOT	1	2	3	4	5	6	7	8	9	10
ISDN, SLC Mode 3	1	2	3	4	5	6	7	8	9	10
SLC Mode 1 (Physical Slot)	1	2	3	4	5	6	7	8	9	10
Baymax-A	10	20	10	10	10	10	10	10	10	10
Baymax-B	2000	2000	3000	3000	3000	3000	3000	3000	3000	3000
Baymax-C	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Baymax-D	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
SLC Mode 2 (Physical Slot)	1	2	3	4	5	6	7	8	9	10
Baymax-A/B	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Baymax-C/D	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000



LOOPBACK TEST (AGRS, NT1)

Loopbacks in the network to customer direction can be initiated from either the ISDN switch (test) or the BR1/10 LUI and BCU. The down-stream direction is automatically selected based on the channel unit position in the circuit. To initiate a loopback, perform the following steps:

1. Insert TX and RX barrier plugs of the DS0 digital test set (i.e. TPI 100/100) to the TEST jacks of the LUI.
2. Connect test set clock interface to DB9 connector of the LUI and configure the test set for Near Loop and inhibit.
3. Select the desired U-BYTE using the DSL rotary switch on the LUI (the selected U-BYTE LED flashes red and green for 3 seconds).
4. Select the desired loopback address using the address rotary switch on the LUI (note: ADRI is always the U-BYTE) your test set is connected to.
5. Select DS0 option and select the desired Bearer channel B1/R2 dip switches on the BCU.
6. Press the recessed TEST push-button on the BCU to initiate the loopback test.
7. The DS0-LB status LED on the BCU will illuminate if the loopback is successful and will not illuminate if the loopback failed.
8. Send and Receive 2047 to the established loopback and observe the DS0 digital test set for bit errors.
9. If it is not necessary to exit the test mode to select additional addresses (ADRI, NT1) or to change to B1/R2 channels.
10. To terminate the loopback, press the TEST push-button and the amber DS0-LB LED will go out.

BCU LEDs

Indicator	Color	Description
AT	Amber	ON indicates a Trunk Alarm is being received from the T1 carrier facility.
AR	Red	ON indicates the BR1/10 side is in a Red Alarm condition.
TP	Amber	ON indicates Trunk Processing is active on all U-BYTES (10).
RCV	Red	ON indicates a loss of framing of T1 signal from the T1 carrier facility.
ESF	Green	ON indicates the T1 Extended Superframe format is selected.
SF	Green	ON indicates the T1 Superframe format is selected.
SDS	Green	ON indicates T1 GDS line coding is selected.
AMI	Green	ON indicates T1 AMI line coding is selected.
DSOL	Green	ON indicates Q Channel 4:9 TDM mode is selected to transport 10 Bfms.
BSOL	Green	ON indicates TR-307 3-DSF framing across the T1 facility to transport 10 Bfms.
LXI	Green	ON indicates External timing input is selected (EXT).
LSC	Green	ON indicates BR1/10 side is using a locally generated clock source to time the T1 network.
LSOP	Green	ON indicates BR1/10 clock is recovered clock from the T1 network.
CAM	Green	ON indicates clock is recovered from the DSX position #1 to time the T1 network.
DSX-LSG	Green	ON indicates the BR1/10 side is in a Local DSX Loopback.
FSST	Green	ON indicates the test has initiated remote DSX Loopback when set to ESF mode. FLASHING indicates it responded to remotely commanded loopback, or has provided a loopback path for the T1 data stream in SF mode.
LF-SYNC*	Red	ON indicates the U-interface is out of sync for the selected channel unit.
LF-CRC*	Red	In normal operation flashes upon receiving NEEBs from the loop. In Local PM mode flashes 8-16 CRCs and is solid when >20 CRC errors are detected from the loop.
CR-2YNC*	Red	ON indicates no TR-307 framing across the T1 carrier for the selected channel.
CR-CRC*	Red	In normal operation flashes upon receiving NEEBs from the T1 carrier. In Local PM mode flashes 8-16 CRCs and is solid when >20 CRC errors are detected from the T1.
DS0-LB*	Amber	ON indicates the selected U-BYTE is in a 2B-B commanded test loopback. Flashing once per second-B1 is looped, flashing twice per second-B2 is looped.
ACT*	Green	ON indicates the customer's NT1 has successfully exchanged ACT bits with the network for the selected channel.

* Status 0 for the channel unit selected on the DSL 10-position rotary switch on the LUI of the BR1/10 side.

WARRANTY

Warranty for Carrier Networks products manufactured by ADTRAN and supplied under Buyer's order for use in the U.S. is ten (10) years. For a complete feedback copy of ADTRAN's U.S. and Canada Carrier Networks Equipment Warranty, call (807) 457-5607, Document #414.