

T-BERD 224 Application

T1 Loopback Testing

The following procedure outlines how to connect the T-BERD 224 to the DSX-1 to perform T1 loopback testing. Please read the entire procedure **BEFORE** starting.

Part 1 – Configuring the T-BERD 224

Step	Switch	Action
1		Configure the T-BERD 224 according to the T-BERD 224 T1 Termination Setup card.
2	AUX	Press to access the auxiliary functions (LED ON).
3	MODE	Scroll to AUX 17 . Select T1 for TYPE of loop code with the SOURCE CONFIGURATION II switch. Select EQUIPMENT to be looped with the RESULTS I blank switch (see T-BERD 224 Loop Codes Technology card). NOTE: FAC2 = Smart Jack and CSU = Customer Service Unit.
4	AUX	Press to exit the auxiliary functions (LED OFF).
5	CHANNEL FORMAT	Select FULL T1 .
6	SOURCE CONFIGURATION I	Select the appropriate stress pattern (e.g., MULTIPAT [®] , QRSS, or 3 in 24; see T-BERD 224 Test Pattern Technology card).
7	RESULTS I	Select LOGIC category using the blank switch. Select result 200BIT ERR using the arrowed switch.

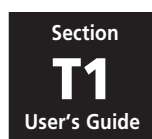
T1-D4	QRSS	200 BIT ERR	RESULTS
FULL T1		0	OK

Part 2 – Performing the Test

Step	Switch	Action
1	LOOP UP	Press the LOOP UP switch (LED ON) to send selected loop code. If loop up is successful, display will flash “LOOP UP SUCCESSFUL”.
2	LOCAL STATUS	Make sure SIGNAL and PATTERN SYNC LEDs are illuminated (FRAME SYNC as well if in FRAMED mode). This indicates that the stress pattern selected in the SOURCE CONFIGURATION is being received by the T-BERD 224.

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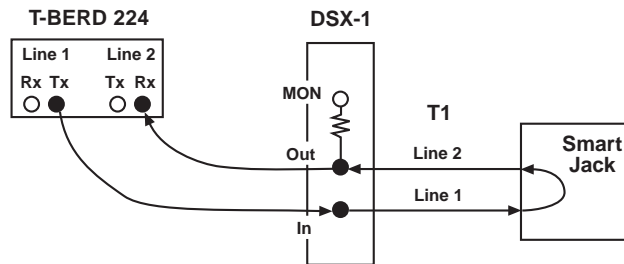


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Part 2 – Performing the Test (cont.)

Step	Switch	Action
3	LOGIC ERROR INSERT	Press the LOGIC switch (LED ON). Send bit errors to verify loop by receiving errors back in the RESULTS I display.
4	RESTART	Press RESTART to clear alarms and begin the test. If no errors are detected, the message “RESULTS OK” is displayed in the RESULTS II display.
5	LOOP DOWN	Press the LOOP DOWN switch (LED ON) to loop down looped equipment when test is completed. The LOOP DOWN switch LED will remain illuminated until loop down is accomplished. If loop down is successful, display will flash “LOOP DOWN SUCCESSFUL”. The PATTERN SYNC LED will extinguish (LED OFF).



Section
T1
User's Guide



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