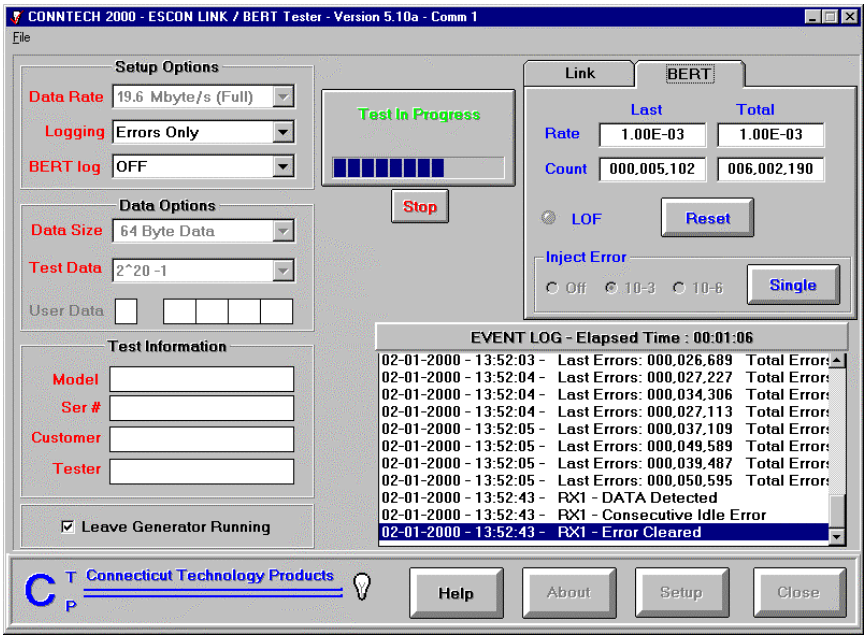
ConnTech 2000 Link and BERT Tester

The **ConnTech 2000** Link Tester now features **BERT** testing for a single link. **BERT** Testing occurs simultaneously with **Link Diagnostics**. All that you need to do is specify the data pattern, frame size and data rate and the Link Tester will monitor the link for errors on both receivers and and analyze for bit errors on receiver 1. Whenever an error is detected it will be displayed and logged. The total test time is displayed on the screen.

The errors logged can be controlled for both BERT testing and Link Diagnostics. This means that the log file can be filtered to only contain the type of errors that are desired. All errors are date and time stamped. The logged data can be saved to a text file for future review. The logged data can be tagged with testing information; model number, serial number, customer information, and the tester's name. All of this is provided in a high level easy to use interface.



The Link Diagnostics analyze both receivers for Link State and Errors. Link State changes or Errors are displayed and logged.

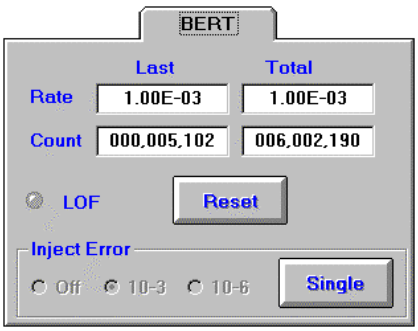
The internal generator can be left ON when the test is complete leaving the link in IDLE state.

The BERT Diagnostics analyze receiver 1 for bit errors in the data pattern being generated. The error counts are displayed and the error rates are calculated and displayed.

The Tester continuously samples for bit errors. The error count and error rate of both the last sample and the total of all samples from the start of the test are maintained and displayed. Bit errors are logged as they are detected. A Reset button is provided to reset the error rate calculations. For the highest Data rate, 19.6 MB/s, Errors can be injected into the data stream. The errors can be at a rate of 10^{-3} , 10^{-6}, or single errors can be generated. This is useful for initial test setup and calibration.

The Tester setup can be saved to disk and reused at any time.

766 Main Street South, PO Box 734, Woodbury, CT 06798 Phone: (203) 266-9303 FAX: (203) 266-9305 Email: mktg@c2p.com

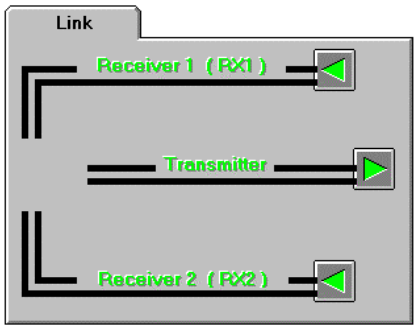


BERT Test Window

The BERT Window displays the bit error count and the bit error rates for the last sample and the totals for the duration of the test. The counts and rates are logged whenever new bit errors are detected. Bit Error Logging can be turned ON or OFF.

The displayed total error rate and error count can be reset at any time. Loss Of Frame condition for the analyzer are displayed.

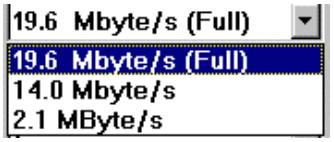
At the fastest data rate, errors can be injected into the data stream.



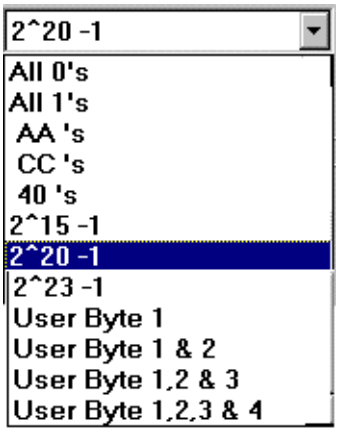
Link Diagnostics Window

The Link Diagnostics Window displays the Link State of each Receiver. Both the Light / No-Light state and Link Errors are displayed graphically and logged. Link State logging can include Link State Changes, Link Errors, or both. Logging can also be turned OFF.

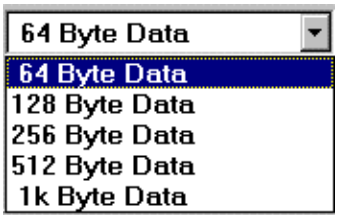
Data Rates



Test Patterns



Frame Sizes



BERT Analyzer

Monitors Analyzer Loss of Lock
Error Generation at 19.6 MB
- Single Errors
- 10^{-6} Bit Error Rate
- 10^{-3} Bit Error Rate

Bit Error Count, Rate logging.

Link State Detection

Light / No Light
Data / No Data

Link Error Detection

CRC errors
Code violations
Sequence violations
Minimum Idles between frames
Delimiter errors (SOF, EOF)

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