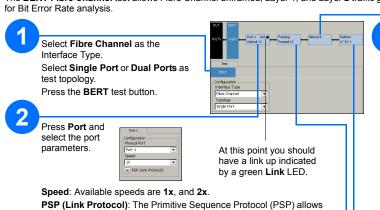
Creating a Fibre Channel BERT Test Case

The BERT Fibre Channel test allows Fibre Channel unframed, Layer 1, and Layer 2 traffic generation with a specific test pattern



link management when the check box is selected and bypass the link

FC Unframed, FC Unframed with

Enable Sync, FC Framed Layer 1, and FC Framed Layer 2.

management protocol when the check box is cleared.

ress Framing and select the framing parameters.

Press Network and select the login parameters.



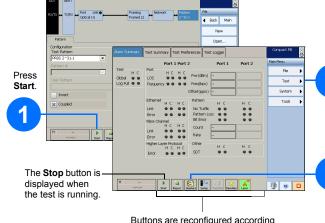
Login button: Initiates the Login process when the Enable check box is selected.

World Wide Name: Enter the WWN source and destination (Fabric only) addresses.

If required, press Pattern to select a different pattern than the default.



Starting the Test Case and Getting Results



Press Test to access options and results. For EtherSAM, see EtherSAM Configuration tabs for additional configuration parameters.

For Frame Analyzer, see Stream Generation tabs for additional configuration parameters.

Press Summary to get summary test results, alarms/errors, test preferences,

Buttons are reconfigured according to the test type and status.

Menus

Ethernet lest			
Interface Setup	Port Setup, Network Setup, Advanced Auto-Neg TX/RX		
Port	Electrical TX/RX, Optical TX/RX		
Traffic Analyzer	Eth. TX/RX, Eth. Stats, PBB-TE, Higher Layers, Filters, Capture, Graph, PM		
Stream Gen.	Overview, Stream Cfg, MAC, IP/UDP/TCP, Payload		
Stream Analyzer	Overview, Stream		
Pattern	Pattern TX/RX, PM		
RFC 2544	Config: Global, Throughput, Back-to-Back, Frame Loss, Latency; Results: Throughput, Back-to-Back, Frame Loss, Latency, Graph		
EtherSAM	Config: Overview, Services, Ramp, Burst; Results: Overview, Configuration Test, Performance Test		
TCP Throughput	Config: TCP Throughput; Results: TCP Throughput		
Advanced Test	Service Disruption Time		
Fibre Channel Test			
Interface Setup	Interface		
Port	Optical TX/RX		
Pattern	Pattern TX/RX, PM		
Traffic Analyzer	FC TX/RX, Latency, FC Stats, PM		

New (Clears the current test case), Open (Opens a saved test case configuration), Save As (Saves the test case configuration), Report (Generates a test report; not available on the FTB-200 v2), About

Preferences (Application Preferences, Eth. Test Preferences, IPv6 Test Preferences, FC Test Preferences), Module Information (Software Package, Module Description, Hardware Options), Software Options

Ping & Trace Route, ENIU and OAM (ENIU Config, ADC Config, 802.3ah Config, 802.3ah Stats, 802.3ah Events), Traffic Scan

Buttons

Start	Starts test. Available when the test is created and not running.	Stop	Stops test. Available when the test is running.
€ H. Reset	Resets the history (H) alarm and error LEDs. Available when the test is running.	€0 Reset	Resets counters (seconds, count, and rate), test timer and both history (H) and current (C) LEDs for the entire test case. Also resets the logger. Available when the test is running.
Sunmary	Gives access to the Alarm Summary, Test Summary, Test Logger, and Test Preferences tabs.	Setup	Brings the user to the test setup screen allowing the selection and configuration of each node of the test path.
Favorites	Provides access to 10 default or customer defined test case configurations. Available when the test is not running.	✓ X Pass Fail	Allows the configuration of the thresholds to which each statistic will be compared to declare a verdict of Pass or Fail .
A Caser	Indicates that the laser control is off. Pressing this button will activate the laser immediately by emitting an optical laser signal.	A ON Laser	Indicates that the laser control is on. Pressing this button will turn off the laser. The laser control button is not affected when generating a LOS.
Report	Generates a report of the current test. Available when the test is not running. Only available on the FTB-200 v2.	Error Send	Generates pattern bit error according to the amount selected on the Pattern TX tab. Only available with BERT when the test is running.
②	Displays the help information on the current window.	×	Closes the current application.
	Captures the current window and saves it to a file.		

TECHNICAL SUPPORT:

 $\textbf{Canada and United States:}\ 1\ 866\ 683\text{-}0155, \textbf{International:}\ 1\ 418\ 683\text{-}5498$ Fax: 1 418 683-9224 http://www.EXFO.com/support support@EXFO.com

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Quick Reference Guide

ETHERNET TEST MODULE

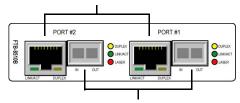
FTB-8510B Packet Blazer for FTB-200

The FTB-8525/8535 **Packet Blazer**™ brings performance assurance to Ethernet-based services.

Physical Interfaces

Connect the Ethernet or Fibre Channel signal to be tested/monitored to the corresponding interface on the module. For optical interfaces, make sure the proper SFP is inserted.

Electrical 10/100/1000 Mb/s ports.



Optical Ethernet 100/1000 Mb/s and 1x/2x Fibre Channel ports.

Starting the Application

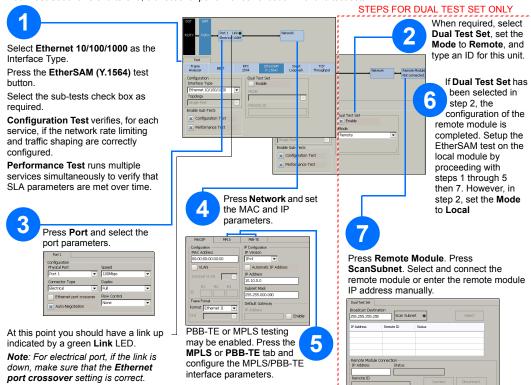


For more information, refer to the user guide.



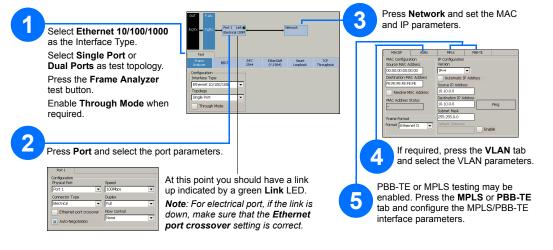
Creating an EtherSAM (Y.1564) Test Case

The **EtherSAM** test validates the key performance indicators of Carrier Ethernet-based services. **Dual Test Set** allows end-to-end, bidirectional performance validation with two test sets.



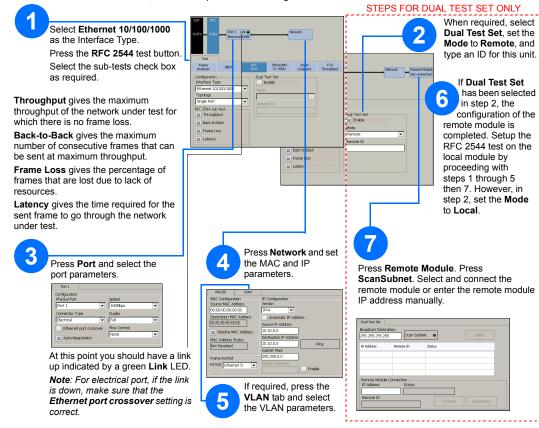
Creating a Frame Analyzer Test Case

The Frame Analyzer test allows multiple streams generation and analysis. Through Mode testing may be enabled.



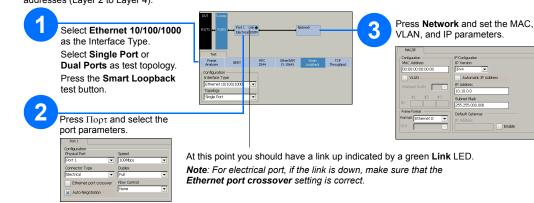
Creating an RFC 2544 Test Case

The RFC 2544 test allows Throughput, Back-to-Back, Frame Loss, and Latency performance tests as per RFC 2544. Dual Test Set allows end-to-end, bidirectional performance testing with two test sets.



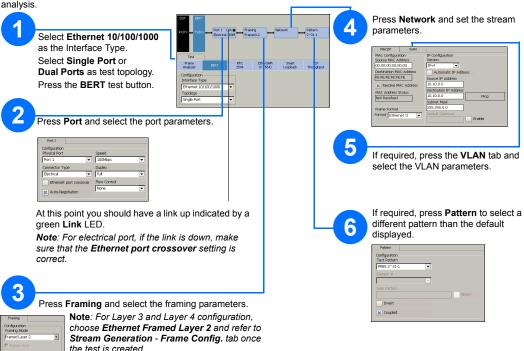
Creating a Smart Loopback Test Case

The **Smart Loopback** test allows transmitting back the received stream of data by interchanging the source and destination addresses (Layer 2 to Layer 4).



Creating an Ethernet BERT Test Case

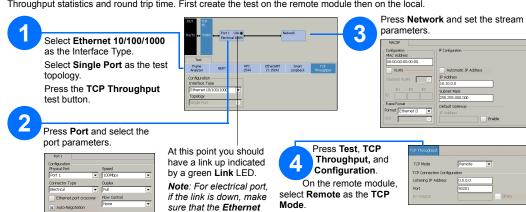
The **BERT** test allows Ethernet unframed, Layer 1 to Layer 4 traffic generation with a specific test pattern for Bit Error Rate analysis.



Creating a TCP Throughput Test Case

port crossover setting

The **TCP Throughput** test generates and evaluates TCP traffic performance between two test sets in the network providing TCP Throughput statistics and round trip time. First create the test on the remote module then on the local



On the local module, select **Local** as the **TCP Mode** and enter the **Remote IP Address** of the remote module.