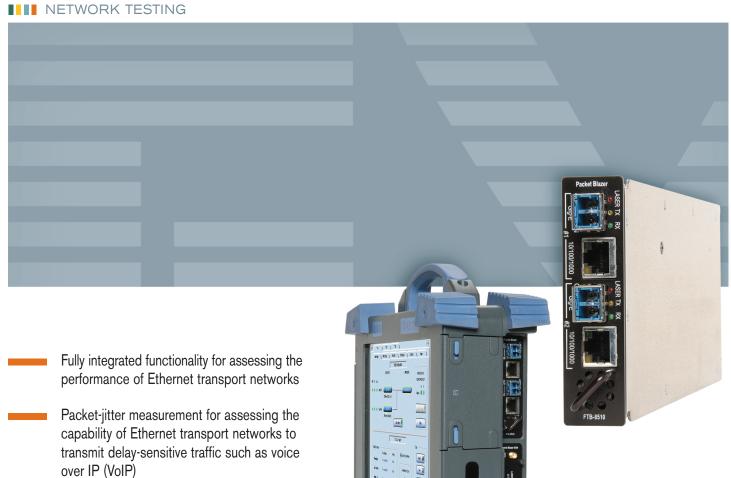
EXFO FTB-200 FTB-8510G FTB-8510B Specs

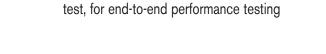
Provided by www.AAATesters.com

8510

ETHERNET TEST MODULE |||

FTB-8510 Packet Blazer





Throughput, burstability (back-to-back), latency and frame loss measurements

Remote control via the LAN connection under



Assessing the Performance of Ethernet Services

The FTB-8510 Packet Blazer™ brings performance assurance to Ethernet-based services. Its wide range of test functionalities provides all the necessary measurement tools for verifying service-level agreements (SLAs) between service providers and their customers.

This FTB-400-housed module tests transparent connectivity in its native format: 10/100/1000Base-T, 1000Base-SX, 1000Base-LX and 1000Base-ZX for LAN-to-LAN services delivered via ATM, frame relay, Next-Generation SONET/SDH, SONET/SDH hybrid multiplexers, switched Ethernet, VLANs, dark fiber, WDM or other means.

Combined with its rack-mounted manufacturing/R&D-environment counterpart, the IQS-8510 Packet Blazer, the FTB-8510 simplifies and speeds up the deployment of Ethernet services.



The FTB-8510 Packet Blazer Test Module is housed in the FTB-400 Universal Test System, EXFO's tough, all-in-one portable platform. Also shown, the FTB-8520 Packet Blazer SAN Test Module.

KEY FEATURES

- Measures throughput, back-to-back, latency and frame loss as per RFC 2544
- Performs packet-jitter measurement (frame-delay variation as per RFC 3393), assessing the capability of Ethernet transport networks to transmit delay-sensitive traffic such as voice over IP (VoIP)
- Simultaneous traffic generation and reception at 100 % wire speed for 10/100/1000Base-T, 1000Base-SX, 1000Base-LX or 1000Base-ZX full-duplex networks at all packet sizes
- Transmits and analyzes up to 10 streams, perfect for installing, commissioning and maintaining layer-2 Ethernet networks
- Dual test set feature enables end-to-end performance testing (as specified by leading standards bodies) by controlling a remote Packet Blazer via the LAN connection under test
- Tests transparent LAN services (TLS), thanks to wire-speed, full-duplex 10, 100 or 1000 Mb/s traffic-generation capabilities
- Dual test ports for lab benchmarking of Ethernet devices
- Easy-to-use smart user interface (SUI) for configurable screens, customization of test routines, as well as real-time and historical performance reporting
- EtherBERT™ for bit-error-rate testing of 10, 100 and 1000 Mb/s Ethernet circuits

Efficient Testing Leads to Reliable Performance

A Highly Efficient and Reliable Test Solution

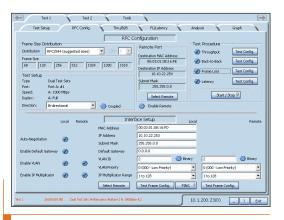
With the FTB-8510 Packet Blazer, you can test both telecom and packet services, as well as conduct end-to-end performance testing. The FTB-8510 ensures long-term integrity and error-free data delivery across Ethernet WAN links.

First-Class Comprehensiveness

The FTB-8510 performs transparent LAN service (TLS) testing with wire-speed, full-duplex 10, 100 and 1000 Mb/s traffic-generation capabilities. It delivers simultaneous traffic generation and analysis at 100% wire speed for 10/100/1000Base-T, 1000Base-SX, 1000Base-LX and 1000Base-ZX full-duplex networks at all frame sizes. The FTB-8510 also features EtherBERT for bit-error-rate testing of 10/100/1000 Mb/s Ethernet circuits.



Performing frame analysis.



The FTB-8510 Packet Blazer's RFC 2544 configuration.

Frame Analysis

This FTB-8510 Packet Blazer feature enables traffic generation and analysis, allowing you to troubleshoot an Ethernet circuit and analyze customer traffic for errors. Thanks to its packet jitter measurement capabilities (as per RFC 3393), service providers can benchmark transport networks for delay-sensitive traffic such as voice over IP (VoIP).

Performance Analysis (RFC 2544)

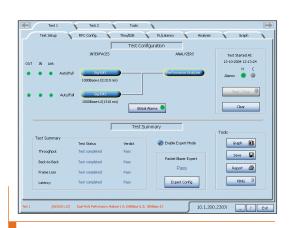
RFC 2544 measurements (throughput, back-to-back, frame loss and latency) provide a basis for service providers and their customers to define service-level agreements (SLAs). They enable service providers to validate the quality of service (QoS) delivered, and can provide them with a tool to create value-added services that can be measured and demonstrated to customers. By offering different classes of services, a service provider can create new revenue sources based on better, measurable performance.

EtherBERT Analysis

The EtherBERT functionality allows for testing transparent Gigabit Ethernet circuits running over an xWDM network as if they were SONET/SDH circuits on the same xWDM network.

User-Friendly Interface

The FTB-8510 Packet Blazer's easy-to-use smart user interface (SUI) lets you tailor screen configurations, customize test routines and format reports on real-time and historical performance.



EXFO's FTB-8510 comes with highly flexible smart user interface.



	FTB-8510 ²	FTB-8510-1 ²	FTB-8510-2	
Ports	Two 10/100Base-T	Two 10/100Base-T and one Gigabit Ethernet	Two 10/100Base-T and two Gigabit Ethernet	
Connector types	RJ-45 (ISO 8877)	RJ-45 (ISO 8877) and LC	RJ-45 (ISO 8877) and LC	
Connect speed (Mb/s)	10/100	10/100/1000	10/100/1000	
Duplex mode	Full/half-duplex	Full/half-duplex	Full/half-duplex	
	auto-negotiation	auto-negotiation	auto-negotiation	
Maximum port capacity (Mb/s)	200 (bidirectional)	2000 (bidirectional)	2000 (bidirectional)	
Ethernet testing	RFC 2544	RFC 2544	RFC 2544	
· ·	RFC 1242	RFC 1242	RFC 1242	

GENERAL SPECIFICATIONS

Size (H x W x D)		2.5 cm x 9.6 cm x 26 cm	(1 in x 3 in x 10 in)	
Weight (without transceivers)		0.5 kg	(1.1 lb)	
Temperature				
	operating	0 °C to 40 °C	(32 °F to 104 °F)	
	storing	-40 °C to 60 °C	(-40 °F to 140 °F)	

SAFETY

21 CFR 1040.10 and IEC 60825-1 CLASS 1 LASER PRODUCT

NOTES

- Similar specifications apply to the IQS-8510 Packet Blazer module, designed for the IQS-500 platform.
- Upgrade kit also available for FTB-8510 Packet Blazer, providing one or two Gigabit Ethernet ports.

ORDERING INFORMATION

MODULE

FTB-85XX-XX

Model Softwar

FTB-8510-1 A-1.6.1 = Packet Blazer software release 1.6.1 FTB-8510-2 A-1.7.0 = Packet Blazer software release 1.7.0

Example: FTB-8510-2

For Gigabit Ethernet optical interfaces, FTB-859x Transceivers have to be ordered separately.

TRANSCEIVER

FTB-859x: Transceivers

FTB-8590: 1000Base-SX (850 nm) LC connectors; optical SFP transceiver

module for IQS-8510 Packet Blazer

FTB-8591: 1000Base-LX (1310 nm) LC connectors; optical SFP transceiver

module for IQS-8510 Packet Blazer

FTB-8592: 1000Base-ZX (1550 nm) LC connectors; optical SFP transceiver

module for IQS-8510 Packet Blazer

TEST KIT

TK-400-8500-XX-XXX-XX-FTB-85XX-XX-XX-XX

Screen code

D3 = STN passive screen D4 = TFT active screen

Memory -

N10 = 256 MB N12 = 512 MB

Expansion unit —

00 = Two-slot module receptacle

H = Seven-slot module receptacle

Model -

FTB-8510 FTB-8510-1 FTB-8510-2 Software

A-1.6.1 = Packet Blazer software release 1.6.1 A-1.7.0 = Packet Blazer software release 1.7.0

Transceiver 1550 nm options (1000Base-ZX)

8592-1 = 1 transceiver module 8592-2 = 2 transceiver modules

Transceiver 1310 nm options (1000Base-LX)

8591-1 = 1 transceiver module 8591-2 = 2 transceiver modules

Transceiver 850 nm options (1000Base-SX)

8590-1 = 1 transceiver module 8590-2 = 2 transceiver modules

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at www.exfo.com.



Rugged Handheld Solutions

- -OLTS
- Power meterLight source
- -Talk set



Optical Fiber

- OTDR
- ORL meter
- Switch

DWDM Test Systems

- -OSA
- PMD analyzer
- Chromatic dispersion analyzerMultiwavelength meter

Transport/Datacom

- 10/100 and Gigabit Ethernet
- SONET/SDH (DS0 to OC-192c)
- -SDH/PDH (64 kb/s to STM-64c)
- _SAN

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EXFO China	Beijing New Century Hotel Office Tower, Room 1754-1755	Beijing 100044 P. R. CHINA	Tel.: +86 (10) 6849 2738	Fax: +86 (10) 6849 2662
	No. 6 Southern Capital Gym Road			

EXFO is certified ISO 9001 and attests to the quality of these products. 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. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices.

Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

For the most recent version of this spec sheet, please go to the EXFO website at http://www.exfo.com/specs







In case of discrepancy, the Web version takes precedence over any printed literature.