Packet Blazer Ethernet Test Module

FTB-8510

Fully integrated functionality for SLA verification of Ethernet-based packet services

Measures throughput, burstability, latency and frame loss

Dual test ports for lab benchmarking of Ethernet devices

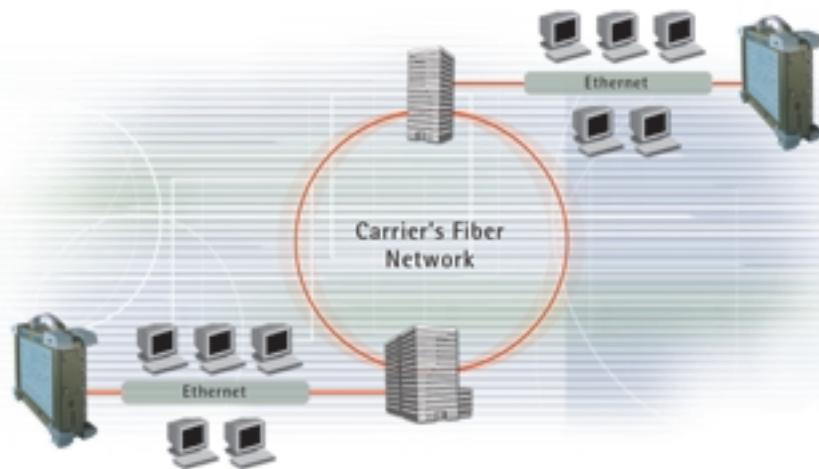Remote control via the LAN connection under test for end-to-end performance testing

EXFO

EXFO's Packet Blazer—SLA Assurance

As a module/option to the FTB-400 Universal Test System, STG™ Series portable test gear and Network Guardian™ G2 remote testing agent, the FTB-8510 Packet Blazer™ Ethernet Test Module brings service-level agreement (SLA) verification to Ethernet-based packet services. EXFO's FTB-8510 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
- Packet over SONET/SDH (PoS)
- SONET/SDH hybrid multiplexers
- Inverse multiplexers
- Switched Ethernet
- VLANs
- Dark fiber
- DWDM or other means.

Key Features

> Dual TestSet 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

> Dual test ports for lab benchmarking of Ethernet devices

> Measures throughput, burstability, latency and frame loss

> Simultaneous traffic generation and capture at 100 % wire speed for 10, 100 or 1000Base-T, 1000Base-SX, 1000Base-LX and 1000Base-ZX full-duplex networks at all packet sizes

> Transparent LAN service (TLS) testing with wire-speed, full-duplex 10 Mb/s, 100 Mb/s or 1000 Mb/s traffic-generation capabilities

> Easy-to-use Smart User Interface (SUI) for configuration screens, customization of test suites, reporting on real-time and historical performance

> EtherBERT™ (patent-pending) for bit-error-rate testing of 10 Mb/s, 100 Mb/s and 1000 Mb/s Ethernet circuits

> IEEE 802.1q framing capability to test RFC2544 in a layer 2 VLAN environment

Efficiency and Reliability

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

User-Friendly Interface

The easy-to-use Smart User Interface (SUI) lets you tailor screen configurations, customize test routines and format reports on real-time and historical performance.

First-Class Comprehensiveness

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

Packet Blazer Smart User Interface

General Specifications[1]

	FTB-8510[2]	FTB-8510-1[2]	FTB-8510-2
Ports	Two 10/100Base-T ports	Two 10/100Base-T ports and one Gigabit Ethernet port	Two 10/100Base-T ports and two Gigabit Ethernet ports
Type of connectors	RJ-45 (ISO 8877)	RJ-45 (ISO 8877) and LC	RJ-45 (ISO 8877) and LC
Connect speed	10/100 Mb/s	10/100/1000 Mb/s	10/100/1000 Mb/s
Duplex mode	Full/half duplex auto-negotiation	Full/half duplex auto-negotiation	Full/half duplex auto-negotiation
Maximum port capacity	200 Mb/s (bidirectional)	2000 Mb/s (bidirectional)	2000 Mb/s (bidirectional)
Ethernet testing	RFC2544	RFC2544	RFC2544
	RFC1242	RFC1242	RFC1242
Weight	0.5 kg (without transceivers)	(1.1 lb) (without transceivers)	
Size (W x H x D)	9.6 cm x 2.5 cm x 26 cm	(3 $^3/_4$ in x 1 in x 10 $^1/_4$ in)	
Operating temperature	0 ˚C to 40 ˚C	(32 ˚F to 104 ˚F)	
Storing temperature	-40 ˚C to 60 ˚C	(-40 ˚F to 140 ˚F)	

NOTE

1. Similar specifications apply to Packet Blazer modules option for STG Series and Network Guardian G2
2. Upgrade kit also available for FTB-8510, enable one or two Gigabit Ethernet ports on FTB-8510 Packet Blazer

Ordering Information

Ordering Module

FTB-85XX

Model
FTB-8510
FTB-8510-1
FTB-8510-2

For Gigabit Ethernet optical interfaces, customer need to order FTB-859x Transceivers separately.

Ordering 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 = 2-slot module receptacle
H = 7-slot module receptacle

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

Model
FTB-8510
FTB-8510-1
FTB-8510-2

Ordering Model

FTB-859x Transceivers

FTB-8590 1000Base-SX (850 nm) LC connectors optical SFP transceiver module for Packet Blazer FTB-8510

FTB-8591 1000Base-LX (1310 nm) LC connectors optical SFP transceiver module for Packet Blazer FTB-8510

FTB-8592 1000Base-ZX (1550 nm) LC connectors optical SFP transceiver module for Packet Blazer FTB-8510

Laser Safety
21 CFR 1040.10	Class 1 Laser Product
IEC 60825-1	Class 1 Laser Product

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

Rugged Handheld Solutions	UNIVERSAL TEST SYSTEM	Optical Fiber	DWDM Test Systems	Protocol
• OLTS	• OTDR	• OSA	• 10/100 and Gigabit Ethernet	
• Power Meter	• OLTS	• PMD	• SONET/SDH (DS0 to OC-192c)	
• Light Source	• ORL	• Chromatic Dispersion Analyzer	• SDH/PDH (64Kb/s to STM-64c)	
• Talk Set	• Switch	• Multiwavelength Meter		

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