PEC SHEET

FTB-8510G Packet Blazer

10 GIGABIT ETHERNET TEST MODULE











Please note that this model has been discontinued. For more information, visit EXFO.com

Performance assurance for Ethernet-based services

KEY FEATURES

Complete EtherSAM (ITU-T Y.1564) test suite. EtherSAM is the new standard for turning up and troubleshooting mobile backhaul and business Ethernet services

LAN and WAN PHY capability in a single module

Fully integrated functionality for assessing the performance of Ethernet transport networks

Packet jitter measurement to qualify Ethernet transport networks for transmission of delay-sensitive traffic such as video and voice-over-IP (VoIP)

Up to 10 Gbit/s full-line-rate data capture and decode

Multistream generation and analysis, allowing quality of

service (QoS) verification through VLAN and ToS/DSCP

Throughput, back-to-back, latency and frame loss

measurements as per RFC 2544 (bidirectional)

prioritization testing

MPLS, MPLS-TP, PBB-TE and IPv4/IPv6 support for complete Carrier Ethernet validation

EXFO Connect-compatible: automated asset management; data goes through the cloud and into a dynamic database

PLATFORM COMPATIBILITY





Platform FTB-500

Compact Platform FTB-200



THE CHOICE FOR 10 GIGABIT ETHERNET PERFORMANCE ASSURANCE

EXFO's FTB-8510G Packet Blazer™ offers performance assurance for 10 Gigabit Ethernet-based services. Its suite of test applications provides all the measurements required for validating service-level agreements (SLAs) between service providers and their customers. Housed in the FTB-500 Platform or FTB-200 Compact Platform, the FTB-8510G module tests connectivity in its native format: 10GBASE-xR or 10GBASE-xW used for transport of Ethernet-based LAN-to-LAN services. It can also be used to test next-generation SONET/SDH, hybrid multiplexers, dark fiber or xWDM networks running 10 Gigabit Ethernet interfaces.

Combined with its rack-mounted remote test unit counterpart, RTU-310, the FTB-8510G simplifies and speeds up the deployment of Ethernet services.



The FTB-8510G Packet Blazer 10 Gigabit Ethernet Test Module can be housed in the FTB-200 Compact Platform. Also shown in the platform, is the FTB-8510B Ethernet Test Module.



The FTB-8510G Packet Blazer 10 Gigabit Ethernet Test Module can also be combined in the FTB-500 Platform with the FTB-8510B Packet Blazer Ethernet Test Module and the FTB-8130 Transport Blazer Next-Generation SONET/SDH Test Module.

KEY FEATURES

Complete EtherSAM (ITU-T Y.1564) test suite allowing full validation of today's Ethernet services (bidirectional results through dual test set)*

Measures throughput, back-to-back, latency and frame loss as per RFC 2544 (bidirectional results through dual test set)

Multistream generation and analysis, providing per-stream measurements for throughput, latency, frame loss and packet jitter

LAN PHY and WAN PHY available in a single module

Simultaneous traffic generation and reception at 100 % wire speed for 10GBASE-SR, -ER, -LR, -SW, -EW or -LW full-duplex interfaces at all valid frame sizes

Transmits and analyzes up to ten streams, perfect for installing, commissioning and maintaining Ethernet networks

UDP, TCP and IP header integrity validation

Easy-to-use smart user interface (SUI) for configurable screens, customization of test suites, as well as real-time and historical performance reporting

Capability to remote control the Packet Blazer test module with the Visual Guardian Lite software or VNC

Configurable advanced filters for in-depth network troubleshooting

PBB-TE and MPLS support for Carrier Ethernet

Up to 10 Gbit/s full-line-rate data capture and decode

Smart Loopback

Service disruption time measurement

Internet protocol version 6 (IPv6 testing)

* Patent pending



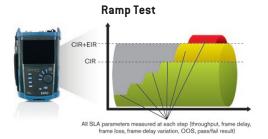
ETHERSAM: THE NEW STANDARD IN ETHERNET TESTING

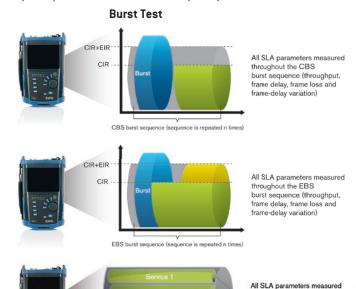
ITU-T Y.1564 is the new standard for turning up and troubleshooting Carrier Ethernet services. This methodology is completely adapted to today's Ethernet services especially mobile backhaul and commercial services. Up to now, RFC 2544 has been the most widely used methodology. However, it was designed for network device testing in the lab, not for services testing in the field. ITU-T Y.1564 is the first testing standard developed for the field. It has a number of advantages over the RFC 2544 including validation of critical SLA criteria such as packet jitter and QoS measurements. This methodology is also significantly faster, therefore saving time and resources while optimizing QoS.

Contrary to other methodologies, EtherSAM supports new multiservice offerings. It can simulate all types of services that will run on the network and simultaneously qualify all key SLA parameters for each of these services. Moreover, it validates the QoS mechanisms provisioned in the network to prioritize the different service types, resulting in more accurate validation and much faster deployment and troubleshooting. EtherSAM is comprised of two phases, the service configuration test and the service performance test.

Service Configuration Test

The service configuration test consists in sequentially testing each service. It validates that the service is properly provisioned and that all specific KPIs or SLA parameters are met. A ramp test and a burst test are performed to verify the committed information rare (CIR), excess information rate (EIR), committed burst size (CBS) and excess burst size (EBS).





Service Performance Test

Once the configuration of each individual service is validated, the service performance test simultaneously validates the quality of all the services over time.

EtherSAM Bidirectional Results

EXFO's EtherSAM approach proves even more powerful as it executes the complete ITU-T Y.1564 test with bidirectional measurements. Key SLA parameters are measured independently in each test direction, thus providing 100 % first-time-right service activation—that is the highest level of confidence in service testing.







at each service (throughput,

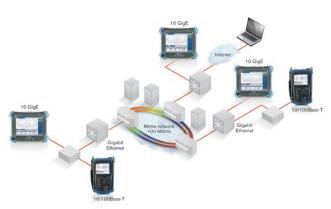
frame delay, frame loss, frame-delay variation, OOS,

pass/fail result)

RFC 2544 TEST SUITE

The FTB-8510G Packet Blazer can perform the RFC 2544 test suite for 10 GbE LAN/WAN interface at all frame sizes and at full line rate, allowing the provider to certify that the circuit is efficient and error-free at 100 % utilization.

The Packet Blazer supports automated RFC 2544 testing, including throughput, latency, burst (back-to-back) and frame loss. Automation also provides ease of use for field technicians by enabling accurate, efficient measurements and results through a clear and simple pass/fail indication. In addition, the Packet Blazer generates reports that can be given to customers for future reference related to their specific SLAs.



Testing can be performed end-to-end or end-to-core, depending on the SLA. Remote testing is also possible.

EFFICIENT TESTING LEADS TO RELIABLE PERFORMANCE

MPLS, MPLS-TP and PBB-TE: Carrier Ethernet Transport Solution Testing

As technologically-sophisticated business and residential consumers continue to drive demand for premium, high-bandwidth data services such as voice and video, service providers worldwide are evolving their transport infrastructures to support these bandwidth and quality intensive services. No longer is an all-IP core sufficient; providers must now expand their IP convergence to the edge/metro network, in a cost-effective, quality-assured manner. Ethernet has long been accepted as an inexpensive, scalable data networking solution in LAN environments. The stringent QoS expectations require solutions that tap into the cost-effectiveness of Ethernet without sacrificing the benefits of connection-oriented (albeit it costly) TDM solutions such as SONET/SDH.

Ethernet tunneling technologies such as Provider Backbone Bridge-Traffic Engineering or PBB-TE (also referred to as PBT) and transport MPLS address these requirements. These technologies enable connection-oriented Ethernet, providing carriers with a means of offering scalable, reliable and resilient Ethernet services. The PBB-TE and MPLS options on the FTB-8510G Packet Blazer offer service providers a comprehensive field tool to efficiently qualify Ethernet services from end to end, validating metro and core tunneling technologies.



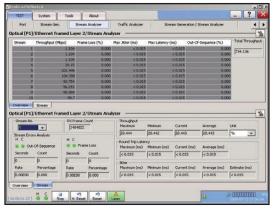
EtherBERT™

Ethernet is increasingly carried across a variety of layer 1 media over longer distances. This creates a growing need for the certification of Ethernet transport on a bit-per-bit basis, which can be done using bit-error-rate testing (BERT).

BERT uses a pseudo-random binary sequence (PRBS) encapsulated into an Ethernet frame, making it possible to go from a frame-based error measurement to a bit-error-rate measurement. This provides the bit-per-bit error count accuracy required for acceptance testing of physical-medium transport systems. BERT-over-Ethernet should usually be used when Ethernet is carried transparently over layer 1 media, in cases such as Ethernet over DWDM, CWDM or dark fiber.



Multistream bandwidth profiles.



Statistics for each stream.

Ethernet QoS Measurements

Data services are making a significant shift toward supporting a variety of applications on the same network. Multiservice offerings such as triple-play services have fuelled the need for QoS testing to ensure the condition and reliability of each service and fully qualify SLA parameters. The FTB-8510G Packet Blazer allows service providers to simultaneously simulate and qualify different applications through its multistream application. The user has the capability to configure up to ten streams with different Ethernet and IP QoS parameters such as VLAN ID (802.1Q), VLAN Priority (802.1p), VLAN stacking (802.1ad Q-in-Q), ToS and DSCP. Specific stream profiles to transmit VoIP, video and data can be selected for each stream. Throughput, latency, frame loss and packet jitter (RFC 3393) measurements are also available simultaneously for each stream, allowing fast and in-depth qualification of all SLA criteria.

Ethernet Advanced Troubleshooting

The FTB-8510G provides a number of advanced features essential for in-depth troubleshooting in the event of network failures or impairments. The advanced filtering option allows the user to configure up to ten filters with each up to four operands, which will be applied to the received Ethernet traffic. Detailed statistics are available for each configured filter providing the user with critical information required to pinpoint specific problems. Additionally, the FTB-8510G supports a traffic scan feature that allows quick identification and monitoring of VLAN and MPLS flows on the network. This can help clearly identify top bandwidth users.

The FTB-8510G also supports full-line-rate data capture and decode. This key troubleshooting tool enables field technicians to easily identify complex network issues. The comprehensive capture feature includes the capability to configure capture filters and triggers to quickly zero-in on network events.



EXFO Connect



AUTOMATED ASSET MANAGEMENT. PUSH TEST DATA IN THE CLOUD. GET CONNECTED.

EXFO Connect pushes and stores test equipment and test data content automatically in the cloud, allowing you to streamline test operation from build-out to maintenance.

EXpert Test Tools on the FTB-200 Platform

EXpert Test Tools is a series of platform-based software testing tools that enhance the value of the FTB-200 platform, providing additional testing capabilities without the need for additional modules or units.

EXPERT TEST TOOLS



EXpert VoIP generates a voice-over-IP call directly from the test platform to validate performance during service turn-up and troubleshooting.

- Supports a wide range of signaling protocols, including SIP, SCCP, H.248/Megaco and H.323
- · Supports MOS and R-factor quality metrics
- · Simplifies testing with configurable pass/fail thresholds and RTP metrics



EXpert IP integrates six commonly used datacom test tools into one platform-based application to ensure that field technicians are prepared for a wide range of testing needs.

- Rapidly performs debugging sequences with VLAN scan and LAN discovery
- Validates end-to-end ping and traceroute
- Verifies FTP performance and HTTP availability



This powerful IPTV quality assessment solution enables set-top-box emulation and passive monitoring of IPTV streams, allowing quick and easy pass/fail verification of IPTV installations.

- Real-time video preview
- Analyzes up to 10 video streams
- · Comprehensive QoS and QoE metrics including MOS score



FUNCTIONAL SPECIFICATIONS

OPTICAL INTERFACES						
	10GBase-SW	10GBase-SR	10GBase-LW	10GBase-LR	10GBase-EW	10GBase-ER
Wavelength (nm)	850 Multimode	850 Multimode	1310 Multimode	1310 Multimode	1550 Multimode	1550 Singlemode
Tx level (802.3ae-compliant) (dBm)	−7.3 to −1.0	−7.3 to −1.0	-8.2 to -0.5	−8.2 to −0.5	-4.7 to -4.0	-4.7 to -4.0
Rx operating range (dBm)	-9.9 to 1.0 dBm	−9.9 to 1.0 dBm	-14.4 to 0.5	-14.4 to 0.5	−15.8 to −1.0	−15.8 to −1.0
Transmission bit rate	9.95328 ± 4.6 ppm*	10.3125 ± 4.6 ppm*	9.95328 ± 4.6 ppm*	10.3125 ± 4.6 ppm*	9.95328 ± 4.6 ppm*	10.3125 ± 4.6 ppm*
Reception bit rate (Gbit/s)	9.95328 ± 150 ppm	10.3125 ± 150 ppm	9.95328 ± 150 ppm	10.3125 ± 150 ppm	9.95328 ± 150 ppm	10.3125 ± 150 ppm
Tx operational wavelength range (802.3ae-compliant) (nm)	840 to 860	840 to 860	1260 to 1355	1260 to 1355	1530 to 1565	1530 to 1565
Measurement accuracy (uncertainty) Frequency (ppm) Optical power (dB)	±4.6 ±2	±4.6 ±2	±4.6 ±2	±4.6 ±2	±4.6 ±2	
Maximum Rx before damage (dBm)	0	0	1.5	1.5	4.0	4.0
Jitter compliance	IEEE 802.3ae					
Ethernet classification	IEEE 802.3ae					
Laser type	VCSEL	VCSEL	DFB	DFB	EML	EML
Eye safety	Class 1 laser; complies with 21 CFR 1040.10 and IEC 60825-1	Class 1 laser; complies with 21 CFR 1040.10 and IEC 60825-1	Class 1 laser; complies with 21 CFR 1040.10 and IEC 60825-1	Class 1 laser; complies with 21 CFR 1040.10 and IEC 60825-1	Class 1 laser; complies with 21 CFR 1040.10 and IEC 60825-1	Class 1 laser; complies with 21 CFR 1040.10 and IEC 60825-1
Connector	Duplex LC					
Transceiver type (compliant with XFP MSA)	XFP	XFP	XFP	XFP	XFP	XFP

 $^{^{\}star}$ When clocking is in internal mode

SYNCHRONIZATION INTERFACES				
DS1/E1 external input clock interface				
Parameter	DS1		E1	
Rx level sensitivity (short haul only)	For 772 kHz: TERM: 6 dB (cable	loss only)	For 1024 kHz: TERM: 6 dB (cable loss only)	
Reception bit rate	1.544 Mbit/s ± 50	ppm	2.048 Mbit/s ± 50 ppm	
Input jitter tolerance	AT&T PUB 62411,	GR-499 section 7.3	G.823 section 7.2	
Line coding	AMI and B8ZS		HDB3 and AMI	
Input impedance (resistive termination)	100 ohms \pm 5 %, b	palanced	120 ohms ± 5 %, balanced	
Connector type	BANTAM		BANTAM	
Clock out interface				
Parameter	Value			
Tx pulse amplitude	600 mVpp ± 130 n	nV		
Transmission frequency Clock divider = 16 Clock divider = 32 Clock divider = 64	LAN 644.53 MHz 322.266 MHz 161.133 MHz	WAN 622.08 MHz 311.04 MHz 155.52 MHz		
Output configuration	AC coupled			
Load impedance	50 ohms			
Maximum cable length	3 meters			
Connector type	SMA			



FUNCTIONAL SPECIFICATIONS (CONT'D)

OPTICAL INTERFACES

Optical interfaces 10 GigE LAN and 10 GigE WAN ^a

Available wavelengths 850, 1310 and 1550 nm

ELECTRICAL INTERFACES

Electrical interfaces External clock DS1/E1 and clock output

External clock DS1/E1 Line coding DS1: AMI and B8ZS

 E1: AMI and HDB3

 Termination mode
 DS1/E1: Term

 Framing
 DS1: SF and ESF

E1: PCM30, PCM30CRC, PCM31 and PCM31CRC

Clocking Internal, external (BITS) and recovered

Clock output Clock out Clock out divider: 16, 32 and 64

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EtherSAM (ITU-T Y.1564) Capability to perform the service configuration test, including the ramp and burst tests, and service performance test as per ITU-T

Y.1564. Tests can be performed to a loopback or dual test set mode for bidirectional results.

RFC 2544 Throughput, back-to-back, frame loss and latency measurements according to RFC 2544. Frame size: RFC-defined sizes, user-

configurable (bidirectional).

BERT Unframed layer 1 up to layer 4 with or without VLAN Q-in-Q.

Patterns (BERT) PRBS 2E9-1, PRBS 2E11-1, PRBS 2E15-1, PRBS 2E20-1, PRBS 2E23-1, PRBS 2E31-1, and up to ten user patterns.

Error insertion (BERT) FCS, bit, 64B/66B Block.

Error measurement LAN/WAN: jabber/giant, runt, undersize, oversize, FCS, 64B/66B Block.

WAN: B1, B2, B3, REI-L, REI-P, UDP, TCP and IP header checksum.

Error measurement (BERT) Bit error, bit mismatch 0, bit mismatch 1, performance monitoring (G.821 and G.826).

Alarm insertion LOS, link down, local fault, remote fault, LSS (BERT).

WAN: SEF, LOF, AIS-L, RDI-L, AIS-P, RDI-P, LCD-P, LOP-P, ERDI-PSD, ERDI-PCD, ERDI-PPD, UNEQ-P.

Alarm detection LOS, link down, local fault, remote fault, frequency offset, LSS (BERT).

WAN: SEF, LOF, AIS-L, RDI-L, AIS-P, RDI-P, LCD-P, LOP-P, ERDI-PSD, ERDI-PCD, ERDI-PPD, PLM-P, UNEQ-P, Link (WIS).

Service disruption time measurement

BERT)

Defect or No Traffic mode. Disruption time statistics include shortest, longest, last, average, total and count.

Multistream generation Capability to transmit up to ten streams. Configuration parameters are: packet size, transmission mode (N-Frames, Burst, N-Burst,

Ramp, N-Ramp and Continuous), MAC source/destination address, VLAN ID, VLAN priority, IP source/destination address, ToS field, DSCP field, TTL, UDP/TCP source/destination port and payload. Selectable predefined stream profiles for voice, video and data

streams. VoIP codecs (G.711, G.723.1, G.729), video (MPEG-2 SDTV, MPEG-2 HDTV, MPEG-4 HDTV).

Multistream analysis Capability to analyze packet jitter, latency, throughput, frame loss and out-of-sequence per-stream statistics.

VLAN stacking (Q-in-Q) Capability to generate streams with up to three layers of VLAN (including IEEE802.1ad QinQ tagged VLAN) and to filter received

traffic by VLAN ID or VLAN priority at any of the stacked VLAN layers.

Traffic filtering Capability to analyze the incoming traffic and provide statistics according to a set of up to ten configurable filters. Filters can be

configured for MAC source/destination address, VLAN ID, VLAN priority, IP source/destination address, ToS field, DSCP field, TCP source/destination port and UDP source/destination port. VLAN filtering can be applied to any of the stacked VLAN layers.

Ethernet statistics Multicast, broadcast, unicast, N-unicast, pause frame, frame size distribution, bandwidth, utilization, frame rate, frame loss, out-of-

sequence frames, in-sequence frames.

Delay variation statistics (ms): min., max., last, average, jitter measurement estimate.

Flow control injection (frame analyzer) Packet pause time.

Flow control statistics Pause time, last pause time, max. pause time, min. pause time, paused frames, abort frames, frames Tx, frames Rx. (frame analyzer and

RFC 2544)

Advanced filtering a Capability to configure up to ten filters of four fields each that can be combined with AND/OR/NOT operations. A mask is also

provided for each field value to allow for wildcards. Complete statistics are gathered for each defined filter.

Capability to perform 10G full-line-rate data capture and decode. Capability to configure detailed capture filters and triggers as well as

capture slicing parameters.

Capability to scan incoming live traffic and auto-discover all VLAN/VLAN Priority and MPLS ID/COS flows. Capability to provide

Statistics for each flow including frame count and bandwidth.

PBB-TE a Capability to generate and analyze streams with PBB-TE data traffic, including configuration of B-MAC (source and destination),

B-VLAN and I-tag (as per 802.1ah), and to filter received traffic by any of these fields.

MPLS a Capability to generate and analyze streams with up to two layers of MPLS labels and to filter received traffic by MPLS label or COS.

IPv6 a Capability to perform BERT, RFC 2544, traffic generation and analysis and Smart Loopback tests over IPv6. Ping, traceroute, neighbor

discovery and stateless auto-configuration.

Note

a. Available as an option.

Packet jitter statistics

Data capture a

Traffic scan 6



FUNCTIONAL SPECIFICATIONS (CONT'D)

ADDITIONAL TEST AND MEAS	UREMENT FUNCTIONS
Power measurement	Supports optical power measurement, displayed in dBm.
Frequency measurement	Supports clock frequency offset generation and measurements (i.e., received frequency and deviation of the input signal clock from nominal frequency).
Frequency offset measurement Range Resolution Accuracy (uncertainty)	±120 ppm 1 ppm ±4.6 ppm
Frequency offset generation Range Resolution Accuracy (uncertainty)	±120 ppm 1 ppm ±4.6 ppm
Signal label control and monitoring	Ability to configure and monitor J0 trace, J1 trace and payload signal label C2 (WAN).
Dual test set	Performs end-to-end, bidirectional performance testing (as required by leading standards bodies)-remote Packet Blazer controlled via the LAN connection under test.
DHCP client	Capability to connect to a DHCP server to obtain its IP address and subnet mask for connecting on to the network.
Smart Loopback	Capability to return traffic to the local unit by swapping packet overhead up to layer 4 of the OSI stack.
IP tools	Capability to perform ping and traceroute functions.

ADDITIONAL FEATURES	
Expert mode	Ability to set thresholds in RFC 2544 and BERT mode to provide a PASS/FAIL status.
Scripting ^a	The built-in Visual Basic .NET scripting engine and embedded macrorecorder provide a simple means of automating test cases and routines. Embedded scripting routines provide a powerful means of creating advanced test scripts.
Event logger	Supports logging of test results, and the ability to print, export (to a file), or export the information contained in the logging tool.
Power up and restore	In the event of a power failure to the unit, the active test configuration and results are saved and restored upon bootup.
Save and load configuration	Ability to store and load test configurations to/from non-volatile memory.
Configurable test views ^b	Allows users to customize their test views; i.e., to dynamically insert or remove test tabs/windows, in addition to creating new test windows, so as to accurately match their testing needs.
Configurable test timer	Allows a user to set a specific start and stop time for tests.
Test favorites	Capability to select and load from predefined or user-modified test conditions.
Report generation	Ability to generate test reports in the following user-selectable formats: .pdf, .html, .txt and .csv.
Graph	Allows to graphically display the test statistics of the performance (RFC 2544) and frame analysis tests.
Screen capturing	Capability to gather a snap-shot of the screen for future use.
Logger printing ^b	Capability to send logger messages to a supported local printer.
Remote control	Remote control through Visual Guardian Lite software or VNC.

Notes

- a. Available on the FTB-200 platform only.
- b. Available on the FTB-500 and IQS-600 platforms only.



MODULE SPECIFICATIONS			
	FTB-8510G-LAN	FTB-8510G-WAN	FTB-8510G-LAN/WAN
Port	One 10 Gigabit Ethernet port	One 10 Gigabit Ethernet port	One 10 Gigabit Ethernet port
Connector type	LC	LC	LC
Optical transceiver	850 nm optics (10GBASE-SR) 1310 nm optics (10GBASE-LR) 1550 nm optics (10GBASE-ER)	850 nm optics (10GBASE-SW) 1310 nm optics (10GBASE-LW) 1550 nm optics (10GBASE-EW)	850 nm optics (10GBASE-SR/-SW) 1310 nm optics (10GBASE-LR/-LW) 1550 nm optics (10GBASE-ER/-EW)
Port capacity	Full-line-rate traffic generation and analysis	Full-line-rate traffic generation and analysis	Full-line-rate traffic generation and analysis
Ethernet testing	RFC 1242, RFC 2544, RFC 3393, multistream traffic generation and analysis, EtherBERT	RFC 1242, RFC 2544, RFC 3393, multistream traffic generation and analysis, EtherBERT	RFC 1242, RFC 2544, RFC 3393, multistream traffic generation and analysis, EtherBERT

GENERAL SPECIFICATIONS			
Size (H x W x D)	96 mm x 25 mm x 280 mm	(3 ³ / ₄ in x 1 in x 11 in)	
Weight (without transceivers)	0.5 kg	(1.1 lb)	
Temperature operating storing	0 °C to 40 °C -40 °C to 60 °C	(32 °F to 104 °F) (-40 °F to 140 °F)	

ORDERING INFORMATION

MODULE

FTB-8510G-XX-XX

Model ■

FTB-8510G-LAN = Packet Blazer 10 GigE, 1 port

10 Gigabit Ethernet LAN PHY (10.3125 Gbit/s)

(10.3125 and 9.953 Gbit/s)

FTB-8510G-WAN = Packet Blazer 10 GigE, 1 port 10 Gigabit Ethernet WAN PHY

(9.953 Gbit/s)

FTB-8510G-LAN/WAN = Packet Blazer 10 GigE, 1 port 10 Gigabit Ethernet LAN and WAN PHY

Other options -

00 = Without other options PBB-TE = PBB-TE testing

MPLS = MPLS testing

Adv_filtering = Advanced filtering capabilities

IPv6 = IPv6 testing capabilities

EtherSAM = EtherSAM (ITU-T Y.1564) testing capabilities

Data Capture = Data capture and decode capabilities TRAFFIC-SCAN = VLAN/MPLS traffic scan

Example: FTB-8510G-LAN-MPLS

TRANSCEIVER

FTB-85900 = 10GBase-SR/-SW (850 nm, LAN/WAN PHY) LC connectors; optical XFP transceiver module for 8510G Packet Blazer

FTB-85901 = 10GBase-LR/-LW (1310 nm, LAN/WAN PHY) LC connectors: optical XFP transceiver module for 8510G Packet Blazer

FTB-85902 = 10GBase-ER/-EW (1550 nm, LAN/WAN PHY) LC connectors; optical XFP transceiver module for 8510G Packet Blazer

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SPFTB8510G.18AN