

ABN 43 064 478 842

231 osborne avenue clayton south, vic 3169
 PO box 1548, clayton south, vic 3169
 t 03 9265 7400 f 03 9558 0875
 freecall 1800 680 680
 www.tmgtestequipment.com.au

Test & Measurement

Complimentary Reference Material

sales
 rentals
 calibration
 repair
 disposal
 This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.
 TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.
 TMG will assist if you are unsure whether this model will suit your requirements.
 Call TMG if you need to organise repair and/or calibrate your unit.
 If you click on the "Click-to-Call" logo below, you can all us for FREE!



Disclaimer:

All trademarks appearing within this PDF are trademarks of their respective owners.



OTDR MODULE SERIES



iber008.trc [1625 nm (9 µm)] R 0 111 *****: ā Quick Save ď Storage • Report Q OTDR Setup OTDR Measure Trace Info. Print Wavelength Settings for 1550 nm SM Next Trace 🗙 1310 nm × About 111 NORLO

Powerful OTDRs covering all network testing applications

- Event dead zone: 0.8 m
- Attenuation dead zone: 4 m
- Dynamic range: up to 50 dB
- FTTx ready: passive optical network (PON) and point-to-point testing capabilities
- = 40 Gbit/s ready: metro and long-haul network testing capabilities

Platform compatibility

- FTB-200 Compact Platform
- FTB-400 Universal Test System





www.EXFO.com Telecom Test and Measurement







A Complete Line of OTDRs for Any Testing Situation

Today's telecom market imposes test challenges that stem from a never-beforeseen variety of fiber-optic architectures. Long-haul, high-fiber-count 10 to 40 Gbit/s and high-speed DWDM networks. CWDM and 2.5 Gbit/s metropolitan rings. Passive optical networks (PONs) and other types of access networks. All of these create increasingly specific and demanding testing requirements, making OTDRs more essential than ever for installing, maintaining and troubleshooting optical links.

EXFO's FTB-7000 series delivers the right tools for accurately detecting and characterizing splices, connectors, splitters, breaks and other events along the fiber, providing a wide choice of configurations to conveniently test all types of networks. They combine up to four wavelengths in a single module, offering extremely short dead zones-perfect for short-distance applications-and faster-than-ever acquisitions.

EXFO's OTDR modules meet all your testing needs with numerous singlemode and multimode configurations available at several wavelengths. Most importantly, they are field-interchangeable and compatible with both of EXFO's rugged, portable test platforms, the powerful FTB-400 Universal Test System and the FTB-200 Compact Platform.



The FTB-7200, FTB-7300, FTB-7400, FTB-7500 and FTB-7600 OTDR modules.



OTDR modules are housed in EXFO's rugged field-testing platforms, the FTB-200 and FTB-400, the latter being shown with a "link characterization" module set that includes an OTDR.



EXFO's OTDR modules deliver smooth performance both in inside-plant and outside-plant applications.

Get the Right Fit

- Various models and configurations, for first-class testing flexibility
- Singlemode modules: 1310, 1383, 1490, 1550 and 1625 nm
- Multimode modules: 850 and 1300 nm
- Four-wavelength multimode and singlemode modules
- Dynamic range of up to 50 dB
- = EXFO Universal Interface (EUI) connector: UPC- and APC-compatible
- Visual fault locator (VFL) option, ideal for troubleshooting LAN/WAN and metro networks



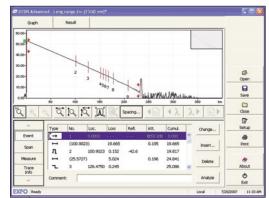
The New FTB-7600E OTDR: For Powerful Ultra-Long-Haul Testing

When distance is an issue, the new FTB-7600E OTDR, with a dynamic range of up to 50 dB, is the solution. Taking full advantage of EXFO's industry-leading expertise in OTDR development, this module can test over distances of up to 250 km.

Thanks to its unmatched linearity of ± 0.03 dB/dB, this new OTDR accurately locates faults on ultra-long links-without compromising on resolution and distance. It is offered in single and dual wavelength configurations (1310/1550/1625 nm).

This combination of quality and power makes the FTB-7600E an excellent choice for companies deploying and maintaining ultra-long-haul networks.

- Up to 256 000 sampling points for higher trace resolution
- Dynamic range of up to 50 dB
- Linearity of ±0.03 dB/dB (the best in the industry)



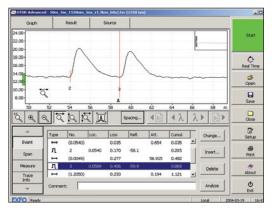
EXFO's FTB-7600E precisely characterizes fiber links up to 250 km.

The FTB-7400E and FTB-7500E OTDRs: No-Compromise Versatility for FTTx, Metro and Long-Haul Testing

Today's fiber networks integrate long-haul, metro and fiber-to-the-home (FTTH) applications, making OTDR versatility a must. While long-haul architectures require high dynamic range values to reach greater distances, FTTH links demand an OTDR offering a good resolution (short dead zones) due to the proximity of many connection points. Up to now, OTDR users had to compromise on one or the other and buy two units–a choice that they no longer have to make.

The new FTB-7400E and FTB-7500E OTDRs combine EXFO's renowned optical performance and unparalleled software analysis with both short dead zones and high dynamic range values, delivering the versatility needed to test long-haul, metro and access links with a single OTDR.

- Up to 256 000 sampling points for higher trace resolution
- Event dead zone of 0.8 m and attenuation dead zone of 4 m for pinpoint event location
- Low-water-peak fiber testing at 1383 nm for characterizing new fiber or assessing the degradation of legacy fiber
- Up to four test wavelengths (1310/1383/1550/1625 nm) for legacy, CWDM and DWDM link characterization
- Dynamic range of up to 45 dB for long-haul testing



The FTB-7000D OTDR's market-leading dead zone allows the full characterization of a typical tie-cable–as short as five meters–with UPC connectors (reflectance below –55 dB).

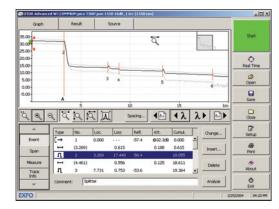
FTB-7200D and FTB-7300D OTDRs: Designed for Metro, Access and FTTH Test Applications

Short Dead Zones

EXFO's FTB-7200D and FTB-7300D OTDRs help you boost test productivity for inside-plant applications. Their exceptional 1 m event dead zone enables you to easily locate and characterize all events between the transmitter and the central office's fiber distribution panel. This feature also comes in handy in metro, access and FTTH network applications, where events are usually closely spaced.

Multimode and Singlemode Flexibility

The FTB-7200D model combines singlemode and multimode functionalities, ideal for private/premises/enterprise network testing. It offers the industry's shortest dead zones, as well as lightning-fast acquisitions. Test multimode fiber within premises, or singlemode fiber between premises–all with a single OTDR unit–and maximize your return on investment.



EXFO's FTB-7300D OTDR easily tests through high-portcount splitters with high loss levels.

Optimizing Passive Optical Network (PON) Testing

Designed to meet the testing requirements brought by FTTH networks in general, and PONs in particular, the FTB-7300D enables testing at 1310, 1490 and 1550 nm. What's more, EXFO's next-generation OTDR software lets you test through high-port-count splitters-even 1x32 splitters-with loss levels of up to18 dB.

Delivering Higher Accuracy for Event Location

The FTB-7200D and FTB-7300D OTDRs locate events with pinpoint accuracy:

- Up to 128 000 sampling points for higher trace resolution
- Sampling resolution down to 4 cm, for ultra-accurate fault location
- Better linearity-down to ±0.03 dB/dB-for more accurate event characterization

EXFO's OTDR Software: Boosting Productivity in the Field 2- Click on

Advanced and Auto Modes: Choose Your Testing Approach

Streamline data acquisition in the field and report generation back at the office with EXFO's powerful OTDR software. Choose from two testing approaches: Advanced mode or Auto mode.

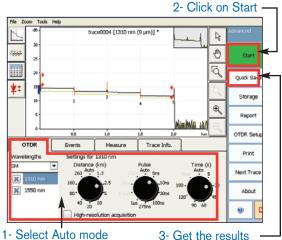
Advanced Mode: Flexibility for Experts

For complete control over your test routine, select the Advanced mode. Manually set all acquisition parameters, including the index of refraction (IOR) and helix factor. Save time and get better results by fine-tuning acquisition parameters on the fly.

Auto Mode: One-Touch Testing

Ideal for basic, repetitive applications, the Auto mode shortens the learning curve for new OTDR users.

- Preset test parameters
- Choice of single- or dual-wavelength OTDR testing
- Convenient one-step event table



As easy as 1-2-3!

- Press the Start button for automatic OTDR testing and test result compilation on up to four wavelengths.
- Quick Save with automated trace-naming completes the test routine.
- Quick Print produces a detailed test report.

General OTDR Software Features

Great Display Legibility for Outdoors Work

For installation and maintenance crews, working outdoors goes with the territory. Switch between black and white display backgrounds as needed, and enjoy great legibility, even in the brightest daylight.

Smooth Data Management

Multiple-Trace Comparison

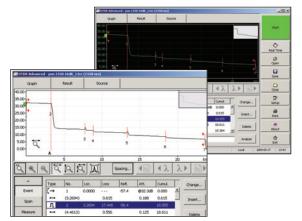
This feature combines file autonaming with subset cable and fiber incrementation.

Universal OTDR Compatibility

fibers of a tube, a ribbon or even a whole cable.

Based on the universal Bellcore format (.sor, Telcordia SR-4731), the software lets you access OTDR traces from various test and measurement manufacturers. You can therefore use the FTB-200 or the FTB-400 and still refer to your previously archived OTDR files.

Multiple-trace viewing lets you quickly compare traces and detect anomalies within



Great display legibility for outdoors work.

Space <t

Multiple-trace comparison on the FTB-400.

FTB-200 Platform OTDR Software Features Summary Screen

FTB-400 Platform OTDR Software Feature

View-at a glance-the pass/fail status for each tested wavelength. What's more, the software automatically detects macrobends, which are also displayed in the summary screen.



Span ORL Wavelength Span lo 2.152 dB <22.93 dt Quick Save ¥: Storage Report Span Length: 838.344 m OTDR Setup Location Delta I Print 0 8

Summary screen.

Linear Trace View

This feature virtually eliminates the need to analyze complex OTDR graphs. It provides a straight forward display of all events and related loss and ORL values. Easily toggle between OTDR traces and the linear view.



Linear trace view.

Fast-Track Data Post-Processing with FastReporter Software

The optional FastReporter software package provides you with the post-processing tools and functionalities you need to meet such challenges, whatever the application. Designed for **off-line analysis of field-acquired data**, FastReporter offers a truly intuitive graphical user interface, which contributes to boosting productivity.

Powerful Batch Processing

Automate repetitive operations on large numbers of OTDR test files and optimize your productivity. Document an entire cable in a matter of seconds. Adjust your cable parameters and detection thresholds and perform batch analysis. Open OTDR files from various vendors' equipment and convert them to the universal Telcordia format.

Bidirectional Batch Analysis

Analyze an entire cable in just two steps. View data for all events on all fibers, and at each wavelength, on a single screen.

Live Templating for OTDR Testing

Benefit from one-step file management at any wavelength. Keep full control by adding or removing events manually, or add/remove events automatically using a reference. Get uniform, detailed cable reports.

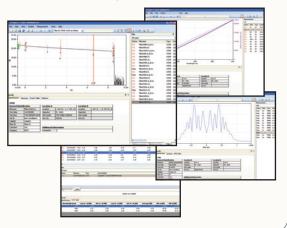
Flexible Reporting

Choose from various report templates, including loss and ORL, OTDR, PMD, CD and fiber characterization. Generate comprehensive cable reports in PDF, Excel or HTML format.

FastReporter

efficient post-processi

Bidirectionnal batch analysis.



Time Savers from EXFO's OTDR

Viewer Software

This free software brings you key data post-processing features such as:

- Pass/warning/fail threshold setup, which helps you meet ribbon and multifiber validation specifications
- Bidirectional trace analysis, which provides more accurate, averaged loss measurements for each event
- Multifiber testing using the Template Trace mode, which dynamically compares new OTDR results with a trace you assign as a reference



All specifications valid at 23 °C ± 2 °C with an FC/PC connector, unless otherwise specified.

SPECIFICATIONS						
All specifications below apply to the F	TB-7200D-12CD-23B multime	ode (MM)/singlemode (SM) mode	and the FTI	3-7200D-12CD mult	timode-only version.	
Model	Wavelength (nm) ^a	Dynamic range b, c (dB)	Event d	ead zone d (m)	Attenuation dead zone d (m)	
FTB-7200D-12CD	850 ± 20/1300 ± 20	27/26	1/1		3/4	
FTB-7200D-12CD-23B	$1310 \pm 20/1550 \pm 20$	36/34	1/1		4.5/5	
Distance range (km)	Multimode: 0.1, 0.3, 0.5, 1.	3, 2.5, 5, 10, 20, 40				
	Singlemode: 1.3, 2.5, 5, 10	0, 20, 40, 80, 160, 260				
Pulse width (ns)	Multimode: 5, 10, 30, 100,	275, 1000		NOTES		
	Singlemode: 5, 10, 30, 100	0, 275, 1000, 2500, 10 000, 20 0	000	a. Typical.		
Launch conditions ^e	Class CPR 1 or 2 ±0.03 0.01			 b. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1. c. Multimode dynamic range is specified for 62.5 μm fiber; a 3 dE reduction is seen when testing 50 μm fiber. 		
Linearity (dB/dB)						
Loss threshold (dB)						
Loss resolution (dB)	0.001				• .	
Sampling resolution (m)	Multimode: 0.04 to 2.5			 d. Typical dead zone for multimode reflectance below -35 dB and singlemode reflectance below -45 dB, using a 5 ns pulse. e. For multimode port, controlled launch conditions allow 50 µm 		
	Singlemode: 0.04 to 5					
Sampling points	Up to 128 000			and 62.5 µm multim		
Distance uncertainty f (m)	\pm (0.75 + 0.0025 % x distance + sampling resolution)			f. Does not include uncertainty due to fiber index.		
Measurement time	User-defined (60 min maximum)			g. Typical output powe	r is given at 1300 nm for multimode output	
Typical real-time refresh (Hz)	3			and 1550 nm for sir	nglemode output.	
Stable source output powerg (dBm)	–1.5 (1300 nm), –7 (1550) nm)				
Visual fault locator (optional)	Laser, 650 nm \pm 10 nm					
	CW, typical P _{out} in 62.5/12	5 µm: 3 dBm (2 mW)				

SINGLEMODE OTDR MODULE SPECIFICATIONS

Model h	Wavelength ⁱ (nm)	Dynamic	Event	Attenuation
		range at 20 µs ^j (dB)	dead zone k (m)	dead zone k (m)
FTB-7200D-XXX	1310 ± 20/1550 ± 20	36/34	1	4.5/5
FTB-7300D-XXX	1310 ± 20/1490 ± 10/1550 ± 20/1625 ± 10	39/34/37/36	1	4.5/5.5/5/5
FTB-7400E-XXXX	1310 ± 20/1383 ± 1/1550 ± 20/1625 ± 10	42/40/41/41	0.8	4/4/4.5/4.5
FTB-7500E-XX	1310 ± 20/1550 ± 20/1625 ± 10	45/45/45	0.8	4/4.5/4.5
FTB-7600E-XX	1310 ± 20/1550 ± 20/1625 ± 10	50/50/48 m	1/1.5/1	5/5/5

NOTES

h. For complete details on all available configurations, refer to the Ordering Information section.

i. Typical.j. Typical dynamic range with a three-minute averaging at SNR = 1.

k. Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.

Typical dead zene of singlemede medales for the FTB-7500E-0023B configuration is 2 dB lower.

m. With NZDS fiber (G.655).

GENERAL SPECIFICATIONS

	7200D/7300D series	7400E-B/7500E-B/7600E-B
Distance range (km)	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400
Pulse width (ns)	5, 10, 30, 100, 275, 1000, 2500,	5, 10, 30, 100, 275, 1000, 2500,
	10 000, 20 000	10 000, 20 000
Linearity (dB/dB)	±0.03	±0.03
Loss threshold (dB)	0.01	0.01
Loss resolution (dB)	0.001	0.001
Sampling resolution (m)	0.04 to 5	0.04 to 5
Sampling points	Up to 128 000	Up to 256 000
Distance uncertainty n (m)	\pm (0.75 + 0.0025 % x distance + sampling resolution)	\pm (0.75 m + 0.001 % x distance + sampling resolution)
Measurement time	User-defined (60 min maximum)	User-defined (5 sec minimum to 60 min maximum)
Typical real-time refresh (Hz)	3	4
Stable source output power ^o (dBm)	-7 (7200D), -3.5 (7300D)	-4.5 (7400E-0023B), 1 (7500E-0034B), 5 (7600E-0023B)
Visual fault locator (optional)	Laser, 650 nm \pm 10 nm	Laser, 650 nm \pm 10 nm
	CW, typical P _{out} in 62.5/125 µm: 3 dBm (2 mW)	CW, typical P _{out} in 62.5/125 µm: 3 dBm (2 mW)

NOTES

n. Does not include uncertainty due to fiber index.

o. Typical output power value at 1550 nm.

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:1993+A2:2001 CLASS 1M WITHOUT VFL OPTION CLASS 3R WITH VFL OPTION



ORDERING INFORMATION

Model = Connector * = COLIN #256 ^h (9/25 µm) and 130/150 µm (9/25 µm) and 130/150 µm (9/25 µm) and 130/150 µm (9/25 µm) • Visual fault locator (0 = Vinual fault locator (0 = Vinue fault locator (0	FTB-72000-12CD-28B = Four-wavelength MM/SM OTDR module, 550/1300 nm (50/125 µm) and 1310/1550 nm (9/125 µm) 00 = Without visual fault locator VFL = With visual fault locator VFL = With visual fault locator FTB-72000-12CD = Dual-wavelength MM OTDR module, 850/1300 nm (50/125 µm) and 62.5/125 µm) EAEUL99 = APC/EC 2000 ^b EAEUL99 = UPC/IDN 47256 Example: FTB-72000-12CD -23B-EIEUL98-EAEUL9 Singlemode (ACCESS/METRO) FTB-7X00D-XX, -XX, XXX EEUL96 = UPC/EC arrow key EIEUL96 = UPC/E2000 a. Please refer to the axample above. First select the connector, and then the singlemode connector. EIEUL96 = UPC/E2000 Single-mode (ACCESS/METRO) FTB-7X00D-XX, -XX, XXX EIEUL96 = UPC/E2000 a. Please refer to the axample above. First select the connector, and then the singlemode connector. EIEUL96 = UPC/E2000 Single-may and the first select the connector Single-wavelength FTB-7X00D-XX, -XX, XXX EIEUL96 = UPC/E2000 b. Singlemode connector. EAEUL98 = APC/C2 narrow key EIEUL98 = APC/C2000 FTB-7300D-028 = SM access OTDR module, 1310 nm (9/125 µm) EAEUL99 = APC/SC EIEUL96 = UPC/CFC narrow key. EIEUL96 = UPC	95-VFL multimode llt locator locator
Model = Visual fault locator Single-wavelength FIB-22000-028 = SM access OTDR module, 1310 nm (9/125 µm) FIB-23000-028 = SM access OTDR module, 1310 nm (9/125 µm) FIB-23000-028 = SM metro OTDR module, 1310 nm (9/125 µm) FIB-23000-028 = SM metro OTDR module, 1310/1550 nm (9/125 µm) FIB-23000-028 = SM metro OTDR module, 1310/1550 nm (9/125 µm) FIB-23000-028 = SM metro OTDR module, 1310/1550 nm (9/125 µm) FIB-23000-028 = SM metro OTDR module, 1310/1550 nm (9/125 µm) FIB-23000-028 = SM metro OTDR module, 1310/1550 nm (9/125 µm) FIB-2400E-2XX-XX-XX Model = Dual-wavelength FIB-2400E-0288 = SM metro OTDR module, 1310/1550 nm (9/125 µm) FTB-7400E-XX-XX-XX Model = Dual-wavelength FIB-2400E-0248 = SM OTDR module, 1310/1550 nm (9/125 µm) FTB-7400E-XX-XX-XX Model = Dual-wavelength FTB-7400E-0248 = SM otto OTDR module, 1310/1550 nm (9/125 µm) FTB-7500E-XX-XX-XX Model = Dual-wavelength FTB-7400E-0248 = SM OTDR module, 1310/1550 nm (9/125 µm) * Example: FTB-7400E-2347B E+EUI-89-VFL Singlemode (LONG-HAUL) FTB-7500E-XX-XX-XX Model = Dual-wavelength FTB-7500E-XX-XX-XX FTB-7600E-0248 = SM OTDR module, 1310/1550 nm (9/125 µm) * FTB-7600E-0238 -EHEUI-89-VFL Singlemode (Model = Visual fault locator O = Without visual fault Connector Connector	locator
Model = Connector P Visual fault locator Single-wavelength FTB-72000-028 = SM module, 1310 nm (9/125 µm) FTB-72000-028 = SM module, 1550 nm (9/125 µm) FTB-73000-028 = SM meto OTDR module, 1550 nm (9/125 µm) FTB-73000-028 = SM meto OTDR module, 1310/1550 nm (9/125 µm) FTB-73000-028 = SM meto OTDR module, 1310/1550 nm (9/125 µm) FTB-73000-028 = SM meto OTDR module, 1310/1550 nm (9/125 µm) FTB-73000-028 = SM meto OTDR module, 1310/1550 nm (9/125 µm) FTB-7400E-XXXXXX Model = Dual-wavelength FTB-7400E-XXXXXX Example: FTB-7300D-234B-EI-EUI-89-VFL Singlemode (METRO/LONG-HAUL) FTB-7400E-XXXXXX Example: FTB-7400E-2347B-EI-EUI-89-VFL Singlemode (LONG-HAUL) FTB-7500E-XXXXXX See singlemode (Access/Metro) FTB-7500E-XXXX-XX See singlemode (Access/Metro) See singlemode (Access/Metro) FTB-7500E-XXXX-XX FTB-7500E-XXXX-XX See singlemode (Access/Metro) FTB-7500E-0238 = SM OTDR module, 1310/1550 nm (9/125 µm) * FTB-7500E-XXXX-XX See singlemode (Access/Metro) FTB-7500E-XXXX-XX Model = See SM OTDR module, 1310/1550 nm (9/125 µm) * FTB-7600E-XXXX-XX Model = FTB-7500E-XXXX-XX FTB-7600E-XXXX-XX See singlemode (Access/Metro) Singlemode (ULTRA-LONG-HAUL) FTB-7600E	Model ■ Connector Visual fault locator Single-wavelength Connector 00 = Without visual fault FTB-7200D-0028 = SM access OTDR module, 1310 nm (9/125 µm) EA-EUI-89 = APC/FC narrow key VFL = With visual fault FTB-7300D-0028 = SM metro OTDR module, 1550 nm (9/125 µm) EA-EUI-91 = APC/SC EA-EUI-92 = APC/FC narrow key FTB-7300D-0028 = SM metro OTDR module, 1550 nm (9/125 µm) EA-EUI-91 = APC/SC EA-EUI-92 = APC/FC narrow key FTB-7300D-0288 = SM metro OTDR module, 1550 nm (9/125 µm) EA-EUI-92 = UPC/INM-710/AG EI-EUI-89 = UPC/INM-710/AG FTB-7300D-0288 = SM metro OTDR module, 1310/1550 nm (9/125 µm) EI-EUI-92 = UPC/ISC EI-EUI-92 = UPC/SC FTB-7300D-0288 = SM metro OTDR module, 1310/1550/1625 nm (9/125 µm) EI-EUI-92 = UPC/SC EI-EUI-93 = UPC/SC FTB-7300D-2348 = SM metro OTDR module, 1310/1550/1625 nm (9/125 µm) EXample: FTB-7300D-234B-EI-EUI-89-VFL Singlemode (METRO/LONG-HAUL) FTB-7400E-XX-XX-XX Image: See singlemode (Access/Metro) FTB-7400E-0238 = SM OTDR module, 1310/1550 nm (9/125 µm) Example: FTB-7400E-2347B-EI-EUI-89-VFL Singlemode (LONG-HAUL) FTB-7500E-XX-XX-XX Image: See singlemode (Access/Metro) FTB-7400E-2347B = SM OTDR module, 1310/1550 nm (9/125 µm) * Example: FTB-7400E-2347B-EI-EUI-8	locator
Model = • Visual fault locator Dual-wavelength See singlemode (Access/Metro) FTB-7400E-0234B = SM OTDR module, 1310/1550/1625 nm (9/125 µm) a • Connector FTB-7400E-0234B = SM OTDR module, 1310/1550/1625 nm (9/125 µm) a • Example: FTB-7400E-2347B-EI-EUI-89-VFL Singlemode (LONG-HAUL) FTB-7500E-XX-XX-XX Model = • Visual fault locator Dual-wavelength • Visual fault locator FTB-7500E-0034B = SM OTDR module, 1310/1550 nm (9/125 µm) a • Visual fault locator VFL = With visual fault locator VFL = With visual fault locator (universal 2.5 mm connector) FTB-7500E-0023B = SM OTDR module, 1350/1625 nm (9/125 µm) a • Visual fault locator FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a • Visual fault locator FTB-7500E-0023B = SM OTDR module, 1350/1625 nm (9/125 µm) a • Visual fault locator FTB-7600E-0023B = SM OTDR module, 1550/1625 nm (9/125 µm) a • Visual fault locator Singlemode (ULTRA-LONG-HAUL) FTB-7600E-XX-XX-XX Model = • Visual fault locator Dual-wavelength • Visual fault locator FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a • Visual fault locator FTB-7600E-0023B = SM OTDR module, 1350/1625 nm (9/125 µm) a • Visual fault locator <td>Model = </td> <td></td>	Model =	
Model ■ • Visual fault locator Dual-wavelength FIB-7400E-0238B = SM OTDR module, 1310/1550 nm (9/125 µm) a FIB-7400E-0234B = SM OTDR module, 1310/1550/1625 nm (9/125 µm) a • Connector Four-wavelength FTB-7400E-2347B = SM OTDR module, 1310/1383/1550/1625 nm (9/125 µm) a FIB-7400E-2347B = SM OTDR module, 1310/1383/1550/1625 nm (9/125 µm) a • Example: FTB-7400E-2347B-EI-EUI-89-VFL Singlemode (LONG-HAUL) FTB-7500E-XX-XX-XX Model ■ • Visual fault locator Dual-wavelength FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a • Visual fault locator FTB-7500E-0023B = SM OTDR module, 1550/1625 nm (9/125 µm) a • Visual fault locator (universal 2.5 mm connector) FTB-7600E-0023B = SM OTDR module, 1550/1625 nm (9/125 µm) a • Visual fault locator FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a • Visual fault locator Model ■ • Visual fault locator (universal 2.5 mm connector) FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a • Visual fault locator (universal 2.5 mm connector) FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a • Visual fault locator FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a • See singlemode (Access/Metro)	Model ■ ■ Visual fault locator Dual-wavelength FTB-7400E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) See singlemode (Access/Metro) Triple-wavelength FTB-7400E-0234B = SM OTDR module, 1310/1550/1625 nm (9/125 µm) a See singlemode (Access/Metro) Four-wavelength FTB-7400E-2347B = SM OTDR module, 1310/1383/1550/1625 nm (9/125 µm) a Example: FTB-7400E-2347B-EI-EUI-89-VFL Singlemode (LONG-HAUL) FTB-7500E-XX-XX-XX Wisual fault locator Model ■ PUisual fault locator Visual fault locator FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a ETB-7500E-XX-XX-XX Singlemode (LONG-HAUL) FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a ETB-7500E-COV23B = SM OTDR module, 1310/1550 nm (9/125 µm) a EVisual fault locator FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a ETB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a EVisual fault locator	
Model ■ Product 2 (universal 2.5 mm connector) Dual-wavelength VFL = With visual fault locator (universal 2.5 mm connector) FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a Connector Singlemode (ULTRA-LONG-HAUL) FTB-7600E-XX-XX-XX Model ■ Visual fault locator (universal 2.5 mm connector) Example: FTB-7500E-0023B-EI-EUI-89-VFL Singlemode (ULTRA-LONG-HAUL) FTB-7600E-XX-XX-XX Model ■ Visual fault locator (universal 2.5 mm connector) FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a Visual fault locator (universal 2.5 mm connector) FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a Connector See singlemode (Access/Metro) FTB-7600E-0023B = SM OTDR module, 1550/1625 nm (9/125 µm) a Example: FTB-7600E-0023B-EI-EUI-89-VFL NOTE: NOTE: NOTE:	Model ■ ■ Visual fault locator Dual-wavelength VFL = With visual fault locator (universal 2.5 mm connect FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm) a ■ Connector FTB-7500E-0034B = SM OTDR module, 1550/1625 nm (9/125 µm) a ■ Connector	
Model Wisual fault locator Dual-wavelength VFL = With visual fault locator (universal 2.5 mm connector) FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) a Connector Singlemode (ULTRA-LONG-HAUL) FTB-7600E-XX-XX-XX Model Visual fault locator (universal 2.5 mm connector) FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) a Visual fault locator Model FTB-7600E-XX-XX-XX Model Visual fault locator (universal 2.5 mm connector) FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) a Visual fault locator FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) a Visual fault locator FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) a Example: FTB-7600E-0023B-EI-EUI-89-VFL NOTE: NOTE:	Model Dual-wavelength FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) ^a FTB-7500E-0034B = SM OTDR module, 1550/1625 nm (9/125 μm) ^a ETB-7500E-0034B = SM OTDR module, 1550/1625 nm (9/125 μm) ^a ETB-7500E-0034B = SM OTDR module, 1550/1625 nm (9/125 μm) ^a	
Model Import OUCL-XXX Dual-wavelength Visual fault locator FTB-7600E-0023B SM OTDR module, 1310/1550 nm (9/125 μm) a FTB-7600E-0034B SM OTDR module, 1550/1625 nm (9/125 μm) a Connector See singlemode (Access/Metro) Example: FTB-7600E-0023B-EI-EUI-89-VFL	See singlemode (Access/Metro)	stor)
Model ■ Dual-wavelength Visual fault locator FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) a VFL = With visual fault locator (universal 2.5 mm connector) Connector See singlemode (Access/Metro) Example: FTB-7600E-0023B-EI-EUI-89-VFL	Singlemode (ULTRA-LONG-HAUL) FTB-7600F-XX-XX	
	Model ✓ Visual fault locator Dual-wavelength VFL = With visual fault locator (universal 2.5 mm conne FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm) a VFL = With visual fault locator (universal 2.5 mm conne FTB-7600E-0034B = SM OTDR module, 1550/1625 nm (9/125 μm) a Connector See singlemode (Access/Metro) See singlemode (Access/Metro)	ctor)

			Toll-fre	ee: 1 800 663-3936 (USA and Canada) www.EXFO.com
EXFO America	3701 Plano Parkway, Suite 160	Plano, TX 75075 USA	Tel.: 1 800 663-3936	Fax: 1 972 836-0164
EXFO Europe	Omega Enterprise Park, Electron Way	Chandlers Ford, Hampshire S053 4SE ENGLAND	Tel.: +44 2380 246810	Fax: +44 2380 246801
EXFO Asia	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241	Fax: +65 6333 8242
EXFO China	No. 88 Fuhua, First Road, Central Tower, Room 801 Futian District	Shenzhen 518048 P. R. CHINA	Tel.: +86 (755) 8203 2300	Fax: +86 (755) 8203 2306
	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. CHINA	Tel.: +86 (10) 6849 2738	Fax: +86 (10) 6849 2662

EXF0 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. EXF0 has made every effort to ensure that the information contained in this specification sheet is accurate. All of EXF0's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXF0.com/recycle. 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 EXF0 for prices and availability or to obtain the phone number of your local EXF0 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.

SPFTB7000B/D/70000C.10AN © 2007 EXFO Electro-Optical Engineering Inc. All rights reserved.

