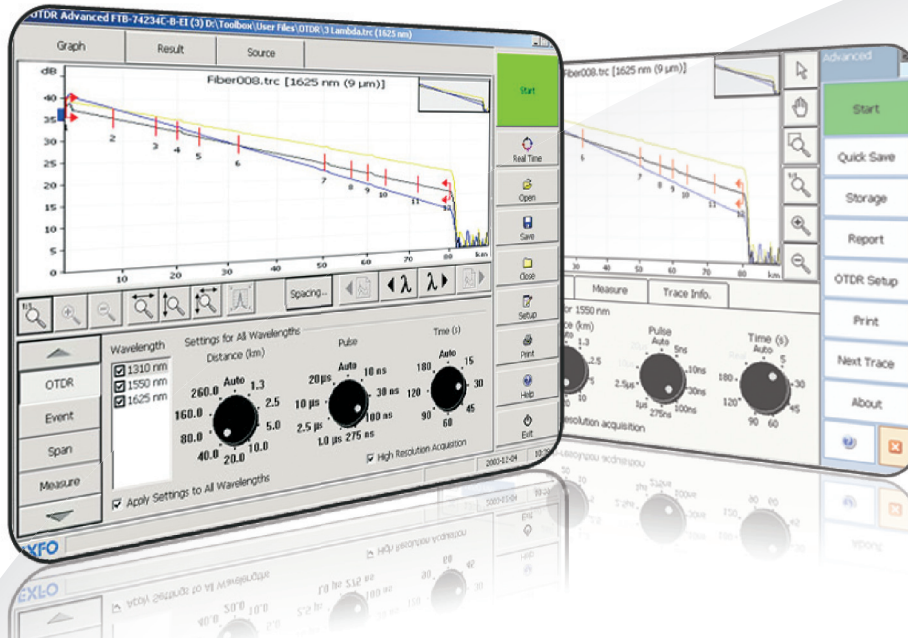


FTB-7500E—Metro/Long-Haul OTDR

LONG-DISTANCE FIBER CHARACTERIZATION AND FIBER UPGRADES



EXFO Connect
Compatible

40G

FTTx
TEST SOLUTIONS



High dynamic range combined with high resolution, for truly accurate fiber characterization

KEY FEATURES

Dynamic range of up to 45 dB

Up to 256 000 sampling points

Event dead zone of 0.8 m and attenuation dead zone of 4 m

Industry-leading linearity of ± 0.03 dB/dB

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

APPLICATIONS

Metro network testing

Long-haul network testing

PLATFORM COMPATIBILITY



Platform
FTB-500



Compact Platform
FTB-200

EXFO

Assessing
Next-Gen Networks

EXFO Connect

EXFO | Connect

AUTOMATE 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
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
TEST TOOLS

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

EXpert | IPTV
TEST TOOLS

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

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

TECHNICAL SPECIFICATIONS ^a	
Model ^a	FTB-7500E
Wavelengths (nm) ^b	1310 ± 20/1550 ± 20/1625 ± 10
Dynamic range at 20 μs (dB) ^c	45/45/45
Event dead zone (m) ^d	0.8
Attenuation dead zone (m) ^d	4/4.5/4.5
Distance range (km)	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400
Pulse width (ns)	5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000
Linearity (dB/dB) ^b	± 0.03
Loss threshold (dB)	0.01
Loss resolution (dB)	0.001
Sampling resolution (m)	0.04 to 5
Sampling points	Up to 256 000
Distance uncertainty (m) ^e	± (0.75 + 0.001 % x distance + sampling resolution)
Measurement time	User-defined (5 sec. minimum to 60 min. maximum)
Typical real-time refresh (Hz)	4
Stable source output power (dBm) ^f	-1 (7500E-0023B)
Visual fault locator (optional) ^b	Laser, 650 nm ± 10 nm CW, P _{out} in 62.5/125 μm: 1.5 dBm (1.4 mW)

Notes

- a. For complete details on all available configurations, refer to the Ordering Information section.
- b. Typical.
- c. Typical dynamic range with a three-minute averaging at SNR = 1. Typical dynamic range at 1550 nm for the FTB-7500E-0023B configuration is 2 dB lower.
- d. Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.
- e. Does not include uncertainty due to fiber index.
- f. Typical output power value at 1550 nm.

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007
CLASS 1M WITHOUT VFL OPTION
CLASS 3R WITH VFL OPTION

ORDERING INFORMATION

Singlemode (METRO/LONG-HAUL)

FTB-7500E-XX-XX-VFL-XX

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

Software Option

00 = Without software option
 AD = Macrobend finder and linear view^b

Visual fault locator (universal 2.5 mm connector)

Connector

EA-EUI-28 = APC/DIN 47256
 EA-EUI-89 = APC/FC narrow key
 EA-EUI-91 = APC/SC
 EA-EUI-95 = APC/E-2000
 EA-EUI-98 = APC/LC
 EI-EUI-28 = UPC/DIN 47256
 EI-EUI-76 = UPC/HMS-10/AG
 EI-EUI-89 = UPC/FC narrow key
 EI-EUI-90 = UPC/ST
 EI-EUI-91 = UPC/SC
 EI-EUI-95 = UPC/E-2000

Example: FTB-7500E-0023B-EI-EUI-89-VFL-AD

Notes

- a. VFL always included.
- b. This software option is compatible only on FTB-200 platform.

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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. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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