FTB-7500E—Metro/Long-Haul OTDR

LONG-DISTANCE FIBER CHARACTERIZATION AND FIBER UPGRADES

40G

EXFO Connect Compatible

FROST & SULLIVAN
2014 BEST PRACTICES AWARD
GLOBAL PORTABLE FIBER OPTIC TEST EQUIPMENT MARKET LEADERSHIP AWARD

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

SPEC SHEET

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-2/FTB-2 Pro

Platform
FTB-200

Platform
FTB-500

EXFO

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/APC connector, unless otherwise specified.

TECHNICAL SPECIFICATIONS

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)

Notes

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

b. Typical.

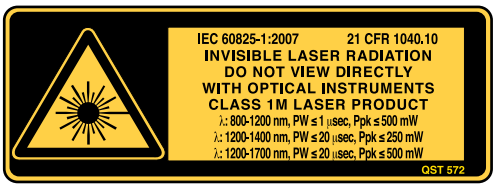
c. Typical dynamic range with a three-minute averaging at SNR = 1. Typical dynamic range at 1550 nm for the FTB-7500E-0023B configuration is 2 dB lower.

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



ORDERING INFORMATION

Singlemode (METRO/LONG-HAUL)

FTB-7500E-XX-XX-XX

Model
Dual-wavelength
FTB-7500E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm)
FTB-7500E-0034B = SM OTDR module, 1550/1625 nm (9/125 µm)

OTDR Software Option
00 = Without software option [a]
AD = Macrobend finder and linear view [b]

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-AD

Notes

a. Includes macrobend finder in FTB-2/FTB-2 Pro.

b. Included in FTB-200v2. Not available in FTB-2/FTB-2 Pro.

EI CONNECTORS

To maximize the performance of your OTDR, EXFO recommends using APC connectors. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly dead zones. APC connectors provide better performances than UPC connectors, thereby improving testing efficiency.

Note: UPC connectors are also available, simply replace EA-XX by EI-XX in the ordering part number. Additional connectors available are the EI-EUI-76 (UPC/HMS-10/AG) and EI-EUI-90 (UPC/ST).

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