

# FTB-7300E—PON FTTx/MDU OTDR

OPTIMIZED FOR ACCESS FIBER DEPLOYMENTS AND TROUBLESHOOTING



Perfect for fiber installers to seamlessly characterize splitters in PON FTTx and MDU applications

## KEY FEATURES

- Test through high-port-count splitters (up to 1x128)
- Singlemode port for in-service troubleshooting
- Dynamic range of up to 39 dB
- Short acquisition time to speed up deployment process
- EXFO Connect-compatible: automated asset management; data goes through the cloud and into a dynamic database

## APPLICATIONS

- FTTx/MDU test challenges within PON networks
- Access network testing

## PLATFORM COMPATIBILITY



**Platform**  
FTB-500



**Compact Platform**  
FTB-200

EXFO | Connect



Assessing  
Next-Gen Networks

## 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  
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

Model	FTB-7300E <sup>a</sup>
Wavelength (nm) <sup>b</sup>	1310 ± 20/1490 ± 10/1550 ± 20/1625 ± 10/1650 ± 7
Dynamic range at 20 μs (dB) <sup>c</sup>	39/35/37/39 <sup>d</sup> /37
Event dead zone (m) <sup>e</sup>	0.8
Attenuation dead zone (m) <sup>e</sup>	4/4.5/4.5/4.5/4.5
Distance range (km)	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400
Pulse width (ns)	5, 10, 30, 50, 100, 275, 500, 1000, 2500, 10 000, 20 000
Linearity (dB/dB) <sup>b</sup>	± 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) <sup>f</sup>	± (0.75 + 0.001 % x distance + sampling resolution)
Measurement time	User-defined (60 min. maximum)
Typical real-time refresh (Hz)	4
Stable source output power (dBm) <sup>g</sup>	-2.5
Visual fault locator (optional) <sup>b</sup>	Laser, 650 nm ± 10 nm CW, P <sub>out</sub> in 62.5/125 μm: 1.5 dBm (1.4 mW)
Reflectance (dB) <sup>b</sup>	± 2

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

### Notes

- a. SM Live port built in filter's bandpass 1625 nm ± 15 nm/1650 nm ± 7 nm.
- b. Typical.
- c. Typical dynamic range with a three-minute averaging at SNR = 1.
- d. Non-SM Live 1625 nm dynamic range is 37 dB.
- e. Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.
- f. Does not include uncertainty due to fiber index.
- g. Typical output power value at 1550 nm.

## GENERAL SPECIFICATIONS

Module	FTB-7300E
Size (H x W x D)	97 mm x 25 mm x 260 mm (3 13/16 in x 1 in x 10 1/4 in)
Weight	0.55 kg (1.2 lb)

## LASER SAFETY

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



## ORDERING INFORMATION

## SINGLEMODE (PON FTTx/MDU) FOR FTB-200 COMPACT PLATFORM OR FTB-500 PLATFORM

## FTB-7300E-XX-XX-XX-XX

## Model ■

## Dual Wavelength

FTB-7300E-023B = SM OTDR module, 1310/1550 nm (9/125  $\mu$ m)FTB-7300E-034B = SM OTDR module, 1550/1625 nm (9/125  $\mu$ m)

## Triple Wavelength

FTB-7300E-234B = SM OTDR module, 1310/1550/1625 nm (9/125  $\mu$ m)FTB-7300E-236B = SM OTDR module, 1310/1490/1550 nm (9/125  $\mu$ m)

## SM Live Port

FTB-7300E-023B-04B = SM and SM live OTDR module, 1310/1550 and 1625 nm live port

FTB-7300E-023B-08B = SM and SM live OTDR module, 1310/1550 and 1650 nm live port

FTB-7300E-000-04B = SM live OTDR with 1625 nm live port (9/125  $\mu$ m)

Example: FTB-7300E-023B-04B-EA-EUI-89-VFL

## Visual Fault Locator

00 = Without visual fault locator

VFL = With visual fault locator (universal 2.5 mm connector)

## Software Option

00 = Without software option

AD = Macrobend finder and linear view <sup>a</sup>

## 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

EI: See note below

## Note

a. This software option is compatible only on FTB-200 platform.

## 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).

EXFO Corporate Headquarters > 400 Godin Avenue, Quebec City (Quebec) G1M 2K2 CANADA | Tel.: +1 418 683-0211 | Fax: +1 418 683-2170 | info@EXFO.com

Toll-free: +1 800 663-3936 (USA and Canada) | [www.EXFO.com](http://www.EXFO.com)

EXFO America	3400 Waterview Parkway, Suite 100	Richardson, TX 75080 USA	Tel.: +1 972 761-9271	Fax: +1 972 761-9067
EXFO Asia	100 Beach Road, #22-01/03 Shaw Tower	SINGAPORE 189702	Tel.: +65 6333 8241	Fax: +65 6333 8242
EXFO China	36 North, 3 <sup>rd</sup> Ring Road East, Dongcheng District Room 1207, Tower C, Global Trade Center	Beijing 100013 P. R. CHINA	Tel.: + 86 10 5825 7755	Fax: +86 10 5825 7722
EXFO Europe	Omega Enterprise Park, Electron Way	Chandlers Ford, Hampshire S053 4SE ENGLAND	Tel.: +44 23 8024 6810	Fax: +44 23 8024 6801
EXFO Finland	Elektronikkatie 2	FI-90590 Oulu, FINLAND	Tel.: +358 (0)403 010 300	Fax: +358 (0)8 564 5203
EXFO Service Assurance	270 Billerica Road	Chelmsford, MA 01824 USA	Tel.: +1 978 367-5600	Fax: +1 978 367-5700

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](http://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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