FTB-7300E—PON FTTx/MDU 0TDR

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

EXFO Connect

PLATFORM COMPATIBILITY



Platform FTB-500



Compact Platform FTB-200



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



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

TECHNICAL SPECIFICATIONS				
Model	FTB-7300E ^a			
Wavelength (nm) ^b	$1310 \pm 20/1490 \pm 10/1550 \pm 20/1625 \pm 10/1650 \pm 7$			
Dynamic range at 20 μs (dB) c	39/35/37/39 ^d /37			
Event dead zone (m) ^e	0.8			
Attenuation dead zone (m) ^e	4/4.5/4.5/4.5			
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) ^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) ^f	± (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) $^{\rm g}$	-2.5			
Visual fault locator (optional) ^b	Laser, 650 nm ± 10 nm CW, P _{out} in 62.5/125 μm: 1.5 dBm (1.4 mW)			
Reflectance (dB) ^b	± 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 \pm 15 nm/1650 nm \pm 7 nm.
- b. Typical.
- c. Typical dynamic range with a three-minute averaging at $\ensuremath{\mathsf{SNR}}=1.$
- 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 Model ■ Visual Fault Locator Software Option **Dual Wavelength** 00 = Without visual fault 00 = Without software option FTB-7300E-023B = SM OTDR module, 1310/1550 nm (9/125 μm) AD = Macrobend finder locator FTB-7300E-034B = SM OTDR module, 1550/1625 nm (9/125 μ m) VFL = With visual fault and linear view a locator (universal Triple Wavelength 2.5 mm connector) FTB-7300E-234B = SM OTDR module, 1310/1550/1625 nm (9/125 µm) FTB-7300E-236B = SM OTDR module, 1310/1490/1550 nm (9/125 μm) ■ Connector EA-EUI-28 = APC/DIN 47256 EA-EUI-89 = APC/FC narrow key FTB-7300E-023B-04B = SM and SM live OTDR module, 1310/1550 and 1625 nm live port EA-EUI-91 = APC/SC FTB-7300E-023B-08B = SM and SM live OTDR module, 1310/1550 and 1650 nm live port EA-EUI-95 = APC/E-2000FTB-7300E-000-04B = SM live OTDR with 1625 nm live port (9/125 μ m) Example: FTB-7300E-023B-04B-EA-EUI-89-VFL 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).

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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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