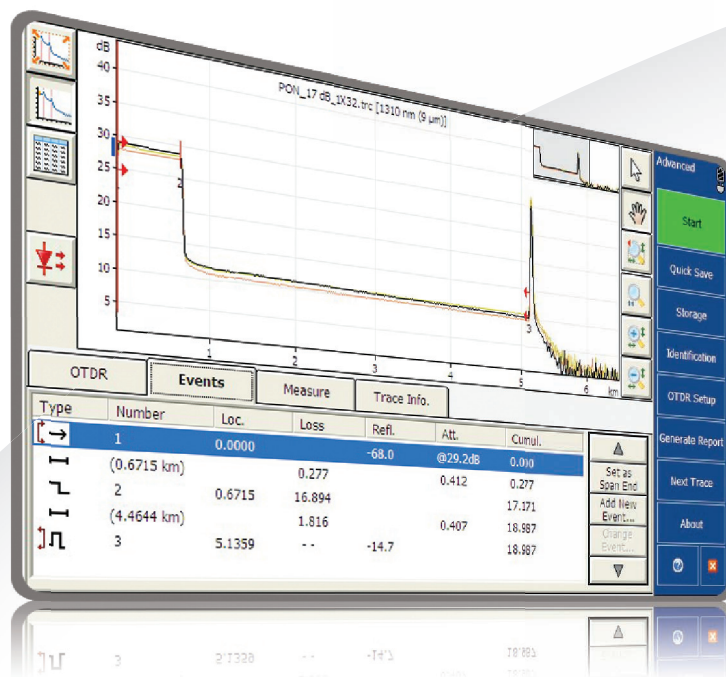


FTB-730 PON FTTx/MDU OTDR

OPTIMIZED FOR ACCESS FIBER DEPLOYMENTS
AND TROUBLESHOOTING



iOLM
READY

EXFO Connect
Compatible



The perfect tool for field technicians who must 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 with standard in-line OPM

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

iOLM-ready: one-touch multiple acquisitions, with clear go/no-go results presented in a straightforward visual format

APPLICATIONS

FTTx/MDU test challenges within PON networks

Access network testing (P2P)

PLATFORM COMPATIBILITY



Platform
FTB-1

EXFO | Assessing
Next-Gen Networks

INTELLIGENT OPTICAL LINK MAPPER—GOING BEYOND OTDR

iOLM | intelligent Optical
Link Mapper

Powered by
LINK-AWARE™
TECHNOLOGY

Using an automated multipulse acquisition approach and filled with advanced algorithms, the iOLM is an OTDR-based application that delivers detailed information on every element of the link through a single button operation—providing maximum intelligence and simplicity for expert-level link characterization.

- › Hardware optimized for field upgradability to the optional iOLM software application
- › Multiple acquisitions with one button—all automated
- › Expert-level characterization results in a single, comprehensive report
- › The highest single-ended fiber testing performance available
- › No training required: self-setting device with clear go/no-go results
- › Minimized truck rolls, thanks to the smartest analysis, powered by Link-Aware™ technology
- › No more trace misinterpretation: prompt diagnosis and clear optical link view

Three ways to benefit from the iOLM on this module:

iOLM only

FTB-730 with iOLM application

OTDR combo

FTB-730 with iOLM and
OTDR applications

Upgrade

iOLM software option for your
existing FTB-730 OTDR

AUTOMATE ASSET MANAGEMENT. PUSH TEST DATA IN THE CLOUD. GET CONNECTED.

EXFO | **Connect**

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.

ADDITIONAL SOFTWARE TEST CAPABILITIES ON THE FTB-1 PLATFORM

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 FC/APC for FTB-730, unless otherwise specified.

TECHNICAL SPECIFICATIONS (OTDR)

Model	FTB-730 ^a
Wavelength (nm) ^b	1310 ± 20/1490 ± 15/1550 ± 20/1625 ± 10/1650 ± 7
Dynamic range at 20 μs (dB) ^c	39/38/37/39 ^d /37
Event dead zone (m) ^e	0.8
Attenuation dead zone (m) ^e	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) ^b	±0.03
PON dead zone (m) ^f	35
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) ^g	±(0.75 + 0.0025 % x distance + resolution)
Measurement time	User-defined (60 min. maximum)
Typical real-time refresh (Hz)	4
Stable source output power (dBm) ^h	-2.5
Reflectance (dB) ^b	±2

TECHNICAL SPECIFICATIONS (In-Line Power Meter)

Input power range (dBm)	1490 nm: -65 to 18 1550 nm: -50 to 28
PON power meter (nm)	Two channels: 1490/1550
Broadband power meter (nm)	One channel: 1270 to 1625
Power uncertainty (dB) ^b	±0.2
Calibrated wavelengths (nm)	1310, 1490, 1550 and 1625
PON power meter spectral band (nm)	1450 to 1530
Broadband power meter spectral band (nm)	1270 to 1625
Display resolution (dB)	0.1
PON power meter ORL (dB) ^b	-55
Broadband power meter ORL (dB) ^b	-50

GENERAL SPECIFICATIONS

Size (H x W x D)	130 mm x 36 mm x 252 mm (5 ¹ / ₈ in x 1 ⁷ / ₁₆ in x 9 ¹⁵ / ₁₆ in)	
Weight	0.65 kg (1.4 lb)	
Temperature		
Operating	0 °C to 50 °C	(32 °F to 122 °F)
Storage	-40 °C to 70 °C	(-40 °F to 158 °F)
Relative humidity	0% to 95% non-condensing	

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

Notes

- SM Live port built in filter's bandpass 1625 nm ± 15 nm/1650 nm ± 7 nm.
- Typical.
- Typical dynamic range with a three-minute averaging at SNR = 1.
- Non-SM Live 1625 nm dynamic range is 37 dB.
- Typical dead zone for reflexions below -45dB using a 5 ns pulse.
- Non-reflective FUT, non-reflective splitter, 13 dB loss, 50 ns pulse, typical value.
- Does not include uncertainty due to fiber index.
- Typical output power value at 1550 nm.

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007
CLASS 1M



ORDERING INFORMATION

SINGLEMODE (PON FTTx/MDU) FOR FTB-1 PLATFORM

FTB-730-XX-XX-XX-XX-XX-XX

Model

Dual Wavelength

FTB-730-23B = SM OTDR module, 1310/1550 nm (9/125 μ m)

FTB-730-34B = SM OTDR module, 1550/1625 nm (9/125 μ m)

Triple Wavelength

FTB-730-236B = SM OTDR module, 1310/1490/1550 nm (9/125 μ m)

SM Live Port

FTB-730-23B-04B = SM and SM live OTDR module, 1310/1550 and 1625 nm live port including in-line broadband power meter

FTB-730-000-04B = SM live OTDR with 1625 nm live port (9/125 μ m) including in-line broadband power meter

FTB-730-000-08B = SM live OTDR with 1650 nm live filtered port (9/125 μ m)

OPM Option^a

OPM = One broadband channel included

OPM2 = Dual channel 1490/1550 nm

iOLM Software Option

00 = Without iOLM option

iEX = iOLM Expert mode

RT = Real-time OTDR mode (via iOLM application)^b

OTDR Software Option^c

00 = Without software option, OTDR application

AD = Auto diagnostic (macro bend detection, pass/fail and fault finder) and linear view

EC = Event characterization (bidirectional analysis and Template mode)

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 connectors = See note below

Base Software

OTDR = Enables the OTDR application only

iOLM = Enables the iOLM application only

Oi = Enables iOLM + OTDR applications

Example: FTB-730-23B-04B-OPM-OTDR-EA-EUI-89-AD

Notes

- Available with FTB-730-000-04B and FTB-730-23B-04B only.
- Available with iOLM base software only. This feature is part of the Oi base software.
- Available with OTDR and Oi base softwares only.

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 Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | www.EXFO.com

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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.