EXFO FTB-1 FTB-730 SM Fiber OTDR Specs Provided by www.AAATesters.com FTB-730 PON FTTX/MDU OTDR

OPTIMIZED FOR ACCESS FIBER DEPLOYMENTS AND TROUBLESHOOTING









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)

COMPLEMENTARY PRODUCTS AND OPTIONS







Platform FTB-1

Fiber Inspection Probe FIP-400B

Data Post-Processing Software FastReporter 2



REMOVING THE COMPLEXITY FROM THE OTDR

ioLM intelligent Optical Link Mapper

Launch multiple OTDR acquisitions



Analyze the traces



Compound the results



Display a schematic link view and prompt diagnosis



US patent 6,612,750

Using a unique and patented automated multipulse and multi-wavelength acquisition approach, the field-proven iOLM surpasses the traditional OTDR and linear view for expert-level link characterization of any fiber network.

This dynamic OTDR-based application uses EXFO's most advanced algorithms to deliver detailed information and maximum resolution on every element of the link. Thanks to its unmatched intelligence and simplicity, the iOLM converts complex OTDR tests into clear and accurate go/no-go results, through a single button operation.

- > Hardware optimized and intelligent software for maximum performance
- > Multiple acquisitions, multiple wavelengths with one button-all automated
- > Expert-level characterization results in a single, comprehensive report
- > The fastest and hassle-free way to perform full fiber characterization
- > 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

Three ways to benefit from the iOLM:

OTDR combo (Oi code)

Run iOLM and OTDR applications on one unit

Upgrade

Add iOLM software option, even while in the field

iOLM only

Order a unit with the iOLM application only

Powered by **LiTiK AWARE**тм

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

TECHNICAL SPECIFICATIONS (OTDR)	
Model	FTB-730 ^a
Wavelength (nm) ^b	$1310 \pm 20/1490 \pm 15/1550 \pm 20/1625 \pm 10/1650 \pm 7$
Dynamic range at 20 μs (dB) $^{\circ}$	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
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	\pm (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

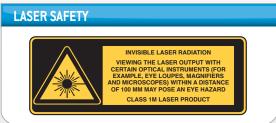
TECHNICAL SPECIFICATIONS (In-Line Power Meter)		
Input power range (dBm)	1490 nm: -65 to 18 1550 nm: -50 to 28	
PON power meter (nm)	Two channels: 1490/1550	
Broadband power meter (nm)	One channel: 1270 to 1625	
Power uncertainty (dB) ^b	±0.2	
Calibrated wavelengths (nm)	1310, 1490, 1550 and 1625	
PON 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 Storage	0 °C to 50 °C (32 °F to 122 °F) -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

- 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 for reflexions below -45dB using a 5 ns pulse.
- f. Non-reflective FUT, non-reflective splitter, 13 dB loss, 50 ns pulse, typical value.
- g. Does not include uncertainty due to fiber index.
- h. Typical output power value at 1550 nm.





ORDERING INFORMATION SINGLEMODE (PON FTTx/MDU) FOR FTB-1 PLATFORM FTB-730-XX-XX-XX-XX-XX Model ■ ■ iOLM Software Option **Dual Wavelength** 00 = Without iOLM option FTB-730-23B = SM OTDR module, $1310/1550 \text{ nm} (9/125 \mu\text{m})$ iEX = iOLM Expert mode FTB-730-34B = SM OTDR module, 1550/1625 nm (9/125 μ m) RT = Real-time OTDR mode (via iOLM application) b OTDR Software Option of the FTB-730-236B = SM OTDR module, 1310/1490/1550 nm (9/125 μm) AD = Auto diagnostic (macrobend detection, pass/fail and fault finder) FTB-730-234B = SM OTDR module, 1310/1550/1625nm (9/125 μ m) and linear view EC = Event characterization (bidirectional analysis and Template mode) FTB-730-23B-04B = SM and SM live OTDR module, 1310/1550 and 1625 nm Connector live port including in-line broadband power meter EA-EUI-28 = APC/DIN 47256 FTB-730-000-04B = SM live OTDR with 1625 nm live port (9/125 μ m) EA-EUI-89 = APC/FC narrow key including in-line broadband power meter EA-EUI-91 = APC/SCFTB-730-000-08B = SM live OTDR with 1650 nm live filtered port (9/125 μ m) EA-EUI-95 = APC/E-2000El connectors = See note below OPM Option ^a ■-OPM = One broadband channel included **Base Software** OPM2 = Dual channel 1490/1550 nm 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-EC

Notes

- a. Available with FTB-730-000-04B and FTB-730-23B-04B only.
- b. Available with iOLM base software only. This feature is part of the Oi base software.
- c. Included 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

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. EXFÓ 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 ww.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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