

Intelligent Optical Link Mapper—iOLM

AUTOMATED AND ACCURATE EXPERT-LEVEL FIBER TESTING



Available on:

- > FTB-720 LAN/WAN OTDR
- > FTB-730 FTTx/PON OTDR

POWERED BY

LINK AWARE™
TECHNOLOGY

Patent protection applies to the intelligent Optical Link Mapper, including its proprietary measurement software. EXFO's Universal Interface is protected by US patent 6,612,750.

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

KEY FEATURES

Minimize training and avoid misconfiguration with a self-setting unit

Turn complex OTDR information into simple and accurate analysis with the Link-Aware technology

Identify each event of the network and obtain a straightforward fiber link status with Optical Link View

Benefit from Prompt Diagnosis to fix network issues quickly and efficiently

Accelerate troubleshooting by eliminating manipulations with the In-Line Optical Power Meter

CHOOSE THE PERFECT FIT:

The iOLM is offered as a stand-alone application or as a field-upgradable software option with the OTDR application.

FTB-720 LAN/WAN OTDR

Dynamic range up to 36 dB

P2P testing of short access links

MM and SM testing needs

FTB-730 FTTx/PON OTDR

Dynamic range up to 39 dB

FTTH deployments master

P2P for access and metro links

PON splitters up to 1x128 for end-to-end PON characterization

PLATFORM COMPATIBILITY



FTB-1

One-module platform
for dedicated applications



Assessing
Next-Gen Networks

REVOLUTIONIZING SINGLE-ENDED FIBER DEPLOYMENTS



Link-Aware™ Technology

Let it optimize the test run

With one click, the unit automatically performs link recognition, sets the optimal parameters and launches multiple acquisitions and multiple analyses—at multiple wavelengths—consolidating the results obtained for every link section and every network element. Get accurate information right away on each link element and export it to a single report.



Self-Setting Unit

Let it be the expert

Powered by Link-Aware technology, the iOLM self-manages the setting of all test parameters—ready-to-use intelligence that dramatically shortens the learning curve. Minimize training, avoid test misconfiguration, and facilitate your technicians' transition from copper to fiber.



Optical Link View

Let it crunch the data

Leaving behind complex OTDR traces, the simplified link mapper provides a straightforward view of the fiber under test, with clear icons and pass/fail verdicts. Get actual results: end-to-end visual assessment of your link, complete with event characterization and fiber status.



Prompt Diagnosis

Let it show you the way

Loaded with countless algorithms and a database of potential network failures, the iOLM guides you through your network's problem-solving process. Say goodbye to trace misinterpretation, and ensure that all your technicians—not just your most experienced ones—can efficiently fix network issues right on the spot.



In-Line Optical Power Meter (available with FTB-730 only)

Let it fast-track troubleshooting

Connect, check power readings, get a link map and find the fault—all in one click and without disconnecting the fiber. Gear up for lightning-fast troubleshooting.

Mandatory: Angled-Polished (APC) Connectors

Like any OTDR, the iOLM will be impacted by strong reflections at the unit's port. To ensure low reflections and maintain measurement accuracy, the iOLM singlemode port must be used with APC connectors. Another advantage of using APC connectors is their ability to handle harsher conditions without becoming highly reflective while maintaining the unit's performance.

In the case of UPC connectors, they are prone to be highly reflective if contaminated, worn or damaged. This will affect the measurement and will lead to premature connector replacement. Although testing a UPC network does not require a UPC unit, using an APC/UPC test jumper (included with the iOLM) or a launch fiber (SPSB) ensures compatibility.

Recommended Test Method

EXFO recommends using a 150-meter launch cable (SPSB) to exclude the loss of the iOLM's connector or to allow UPC network testing. It will also extend the instrument's connector life by reducing the number of matings—ultimately improving the cost of ownership.



GENERAL SPECIFICATIONS

Module	FTB-720	FTB-730
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)	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)	0.65 kg (1.4 lb)

LASER SAFETY

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



ORDERING INFORMATION

Multimode and Singlemode Access and LAN/WAN OTDR

FTB-720-XX-XX-XX-XX-XX

Model

- FTB-720-000-04B = OTDR with filtered 1625 nm port
- FTB-720-023B-04B = OTDR 1310/1550 nm with filtered 1625 nm port
- FTB-720-23B = OTDR 1310/1550 nm
- FTB-720-12CD = OTDR 850/1300 nm
- FTB-720-12CD-23B = OTDR 850/1300 nm, 1310/1550 nm

Example: FTB-720-23B-04B-OTDR-EI-EUI-89-EA-EUI-89

First Connector (Multimode)

- 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

Base Software

- OTDR = Enables the OTDR application only
- iOLM^a = Enables the iOLM application only
- Oi^a = Enables iOLM and OTDR applications

Software Options^b

- 00 = Without software option
- AD = Auto diagnostic (macroband detection, pass/fail and fault finder)
- EC = Event characterization (bidirectional analysis and Template mode)

Second Connector (Singlemode)

- 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

Singlemode (PON FTTx/MDU) OTDR for FTB-1 Platform

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

Model

Dual-Wavelength

- FTB-730-23B = SM OTDR module, 1310/1550 nm (9/125 μm)
- FTB-730-34B = SM OTDR module, 1550/1625 nm (9/125 μm)

Triple-Wavelength

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

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 μm) including in-line broadband power meter
- FTB-730-000-08B = SM live OTDR with 1650 nm live filtered port (9/125 μm)

Example: FTB-730-023B-04B-OPM-iOLM-EA-EUI-89

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 and OTDR applications

OPM Option^c

- OPM = One broadband channel included
- OPM2 = Dual channel 1490/1550 nm

Software Options^b

- 00 = Without software option, OTDR application
- AD = Automatic diagnosis (macroband detection, pass/fail and fault finder) and linear view
- EC = Event characterization (bidirectional analysis and Template mode)

SPSB-XX-XX

Model

Dual-Wavelength

- SPSB-B-150 = Soft pulse suppressor bag, singlemode fiber 9/125 μm, 150 m

Example: SPSB-B-150-58-101

Connector

- 58 = FC/APC narrow key
- 88 = SC/APC narrow key
- 89 = FC/UPC
- 90 = ST/UPC
- 91 = SC/UPC
- 95 = E2000/UPC
- 96 = E2000/APC
- 101 = LC/UPC^d
- 104 = LC/APC^d

Notes

- The iOLM software is available on singlemode port only. FTB-720-12CD-23B must be ordered with Oi option to enable iOLM on the singlemode port.
- Available only with OTDR base software.
- Available only with FTB-730-000-04B and FTB-730-23B-04B.
- LC connectors are not available for first connector.

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-91 (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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