

# Intelligent Optical Link Mapper (iOLM)

OTDR-BASED APPLICATION MAKING EXPERT-LEVEL FIBER TESTING ACCESSIBLE TO ANYONE



Available on:

- > MAX-700B OTDR Series
- > FTB-700 OTDR Series
- > FTB-7000E OTDR Series

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.

The iOLM is designed to simplify OTDR testing by eliminating the need to configure parameters, and/or analyze and interpret multiple complex OTDR traces. Its advanced algorithms dynamically define the testing parameters, as well as the number of acquisitions that best fit the network under test. By correlating multipulse widths on multiple wavelengths, the iOLM locates and identifies faults with maximum resolution—all at the push of a single button.

## KEY FEATURES

- Self-setting unit dynamically adapting to any fiber link
- Intelligent multi-acquisitions at multiple wavelengths in a single icon-based link view
- Comprehensive fault diagnosis and guidance
- Consolidated bidirectional link view (patent-pending)
- OTDR trace file generation (.sor)
- TIA/IEC automated pass/fail thresholds for enterprise/data centers (optional)
- Test two fibers at once with loopback testing mode (optional)

## KEY NETWORK APPLICATIONS

- Point-to-point access
- FTTx last mile
- LAN/WAN, enterprise and data-center certification
- FTTx/PON MDU
- Fronthaul (FTTA, DAS and small cells) and backhaul
- Passive optical LAN (POL)
- Metro core and long haul
- CWDM
- Cable certification (IL/ORL measurement)

## PLATFORM COMPATIBILITY

### FTB Family Platforms



**EXFO**

## GO BEYOND OTDR TESTING

Innovation is front and center at EXFO, and the intelligent Optical Link Mapper (iOLM) is a prime example of a game-changing solution. The iOLM lets you take advantage of the full power of your OTDR—bringing automation to a new level, and enabling even the untrained technician to become a test expert in no time.

The iOLM integrates all our expertise into a simple, easy-to-use software solution that will take your OTDR testing capabilities further than they've ever been. And, because EXFO designs and optimizes each OTDR model to offer the best possible performance for its specific application, your solution will fit your reality.

## iOLM—REMOVING COMPLEXITY FROM THE OTDR

### OTDR TESTING COMES WITH ITS LOAD OF CHALLENGES...

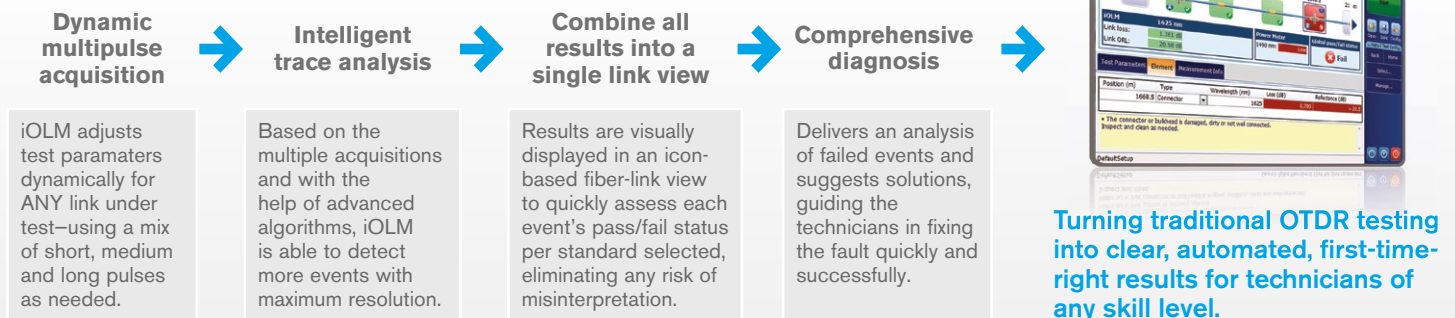


## IN RESPONSE TO THESE CHALLENGES, EXFO DEVELOPED A BETTER WAY TO TEST FIBER OPTICS:



## iOLM | intelligent Optical Link Mapper

### HOW DOES IT WORK?



### THREE WAYS TO BENEFIT FROM THE iOLM

- 1 OTDR combo (Oi code)**  
Run iOLM and OTDR applications on one unit
- 2 Upgrade**  
Add the iOLM software option, even while in the field
- 3 iOLM only**  
Order a unit with the the iOLM application only

## THREE EASY STEPS TO A PERFECT FIT

### STEP 1: Choose your network application

True OTDR performance goes far beyond simple product specifications. It's about optimizing your network services, based on application-specific parameters.

### STEP 2: Choose your form factor

- › MaxTester 700B Series: Compact, dedicated, tablet-inspired, handheld OTDRs designed to perform singlemode tasks under tight budget constraints
- › FTB-1: Compact, modular handheld platform for multitest applications and advanced frontline troubleshooting
- › FTB-200: Modular handheld platform providing more flexibility for repetitive daily tasks
- › FTB-2/FTB-2 Pro: The most compact multitechnology platform for the supertech
- › FTB-500: Full-sized modular platform for advanced multi-application testing

PUT IT TOGETHER.  
FIND THE SOLUTION.

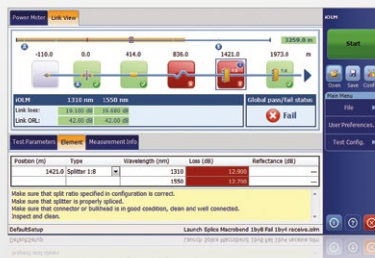
STEP 1: APPLICATIONS		CORRESPONDING SOLUTION	
LAN/WAN DATA CENTERS ENTERPRISE/PRIVATE NETWORKS P2P ACCESS	MAX-720B (Singlemode) LIGHTWEIGHT, ON-THE-GO ALTERNATIVE	FTB-720-QUAD + iCERT HIGH-EFFICIENCY FRONTLINE TESTING FTB-720G (Singlemode/Multimode) FAST OPTICAL AND ETHERNET TURN-UP	
FIBER-TO-THE-ANTENNA (FTTA) REMOTE RADIO HEAD (RRH) DAS/SMALL CELLS CELL BACKHAUL CATV	MAX-720B (Singlemode) LIGHTWEIGHT, ON-THE-GO ALTERNATIVE	FTB-700G + iLOOP COMPLETE OPTICAL AND ETHERNET TURN-UP KIT (+CPRI/OBSAI) FTB-720C + iLOOP OPTICAL TURN-UP KIT	
FTTx LAST-MILE FTTx/PASSIVE OPTICAL NETWORKS (PON) FTTH/MDU PASSIVE OPTICAL LAN (POL) SHORT METRO	MAX-715B LAST-MILE, HANDHELD TROUBLESHOOTING MAX-730B HANDY SPLITTER CHARACTERIZATION	FTB-720/FTB-720C/FTB-730 FASTER FTTx/MDU/POL TESTING	FTB-7300E COMPLETE NETWORK CONSTRUCTION SOLUTION + FTB-3930 FOR OLTS/OTDR FIBER CHARACTERIZATION
METRO/CORE CWDM LONG HAUL			FTB-7400E NO-COMPROMISE METRO/CWDM VERSATILITY

### STEP 3: Choose your technology

Go traditional, go bleeding-edge, or combine the best of both worlds in a single unit:



and/or



- › **Time-proven OTDR technology** with advanced modes, trace analysis and editing

- › **Groundbreaking iOLM and Link-Aware™ technology**, with its multipulse approach, visual link depiction and per-event diagnosis

## UNIQUE FEATURES

### REVOLUTIONIZING SINGLE-ENDED FIBER DEPLOYMENTS



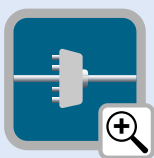
#### LINK-AWARE™ TECHNOLOGY

**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 for 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 complex OTDR traces behind, 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.



#### OTDR TRACE FILE GENERATION

**Fits your existing procedures** | The iOLM can generate a universal and enhanced Bellcore format (.sor) OTDR trace to comply with your existing reporting and post-processing requirements. This OTDR trace integrates all the additional information gathered by the iOLM, providing more complete results.



#### BIDIRECTIONAL ANALYSIS (VIA FASTREPORTER 2 DATA POST-PROCESSING SOFTWARE)







**Let it combine the results** | Recommended to ensure true splice characterization, bidirectional analysis combines results from both directions to provide an average loss for each event. Use of bidirectional analysis with the iOLM ensures that you benefit from maximum resolution on both directions (multiple pulse widths at multiple wavelengths), as well as a consolidated view.

### 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 operations from build-out to maintenance.

## ADDITIONAL FEATURES

BOOST YOUR EFFICIENCY	
<b>iOLM Advanced</b>	 <p><b>REAL-TIME AVERAGING</b></p> <p>Activates the OTDR laser in continuous shooting mode; the trace refreshes in real time, making it possible to monitor the fiber for sudden change. Perfect for a quick overview of the fiber under test, to control field splicing or to check the link before launching an iOLM acquisition.<sup>a</sup></p>
	 <p><b>2XN SPLITTER CHARACTERIZATION</b></p> <p>The iOLM is the only solution on the market capable of characterizing the 2xN splitter with a clear pass/fail verdict for multi-input or redundancy networks. The iOLM identifies 2xN splitters, as well as both of their input branches, allowing users to accurately document the network with one test (compared to three tests when using traditional methods).<sup>a</sup></p>
	 <p><b>iOLM EXPERT MODE (iEX)</b></p> <p>iEX is a software option specifically designed for the fiber test expert or the manager who requires more flexibility in documenting the trace files for reporting purposes. Because flexibility also means that you can create your own elements to better match your network plans, this option allows you to add extra events, delete events, or re-analyze the trace.<sup>a</sup></p>
	 <p><b>DATA-CENTER CABLE CERTIFICATION (iCERT)</b></p> <p>The iCERT option turns the iOLM into an intelligent tier-2 certifier with automated pass/fail thresholds for SM/MM cables, helping fiber installers to certify or troubleshoot any enterprise or data-center network according to internationally recognized standards (including TIA-568, ISO 11801).<sup>b</sup></p> <p>Having predefined cable standards built into the application ensures compliance with test requirements of different standard bodies, and without risk of error during testing.</p>
<b>iOLM Pro (Includes iOLM Advanced)</b>	 <p><b>LOOPBACK TESTING MODE (iLOOP)</b></p> <p>The iLOOP feature allows your iOLM unit to double its testing efficiency by reducing testing time by 50% compared to a traditional unidirectional test method. This intelligent application relies on the loopback single-ended measurement method to characterize two fibers at once. The application splits the results into two individual links, thus eliminating the need for post-processing. iLOOP automatically generates individual iOLM and OTDR (.sor) files, in addition to PDF reports, for all your fibers directly from the field, enabling you to close your job immediately and move on to the next fiber pair faster.</p> <p>This option is particularly efficient for applications such as fiber-to-the-antenna (FTTA), distributed antenna systems (DAS) and data centers, where iLOOP enables you to simultaneously test Rx/Tx fibers with a simple loop jumper between the two fibers. Once the measurement is completed, iLOOP applies pass/fail assessments and generates a report for each single fiber.<sup>c</sup></p>
	 <p><b>MULTIFIBER MPO CABLE CHARACTERIZATION AND TROUBLESHOOTING</b></p> <p>In combination with an external 1x12 MPO switch (supplied by EXFO), the iOLM allows for faster-than-ever testing of singlemode MPO cables, with no need to use a fan-out cable or cassette. Human manipulation is reduced by 90%, in turn significantly reducing the risk of error. Thanks to the intelligent multifiber algorithm (iMF), with a single push of the Start button, the test sequence of the 12 fibers is fully automated and results in 12 single measurements.<sup>d</sup></p>

**Notes**

- a. This feature is available with the iOLM Advanced application.
- b. This feature is available on FTB-720 MM and quad models with the iOLM Advanced application.
- c. This feature is available with the iOLM Pro application.
- d. This software option is available on the FTB-700 modules with the iOLM Pro pack.

iOLM PACKS	FEATURES	MAX-700B	FTB-1/FTB-1 PRO	FTB-2	FTB-500
<b>iOLM Standard</b>	Dynamic multipulse acquisition	•	•	•	•
	Intelligent trace analysis	•	•	•	•
	Map view	•	•	•	•
	Diagnosis	•	•	•	•
	SOR trace generation	•	•	•	•
	Short-link closed events (optimode)	•	•	–	–
<b>iOLM Advanced</b>	Features of iOLM Standard	•	•	•	•
	Real-time acquisition	•	•	•	•
	Link edition	•	•	•	•
	Custom elements	•	•	•	•
	Link re-analysis	•	•	•	•
	2:N splitter	• (MAX-720B, MAX-730B)	•	•	•
	PON last-mile certification (optimode)	• (MAX-715B, MAX-730B)	• (FTB-730)	–	–
Certification option	–	• (FTB-720 multimode and quad)	–	–	
<b>iOLM Pro</b>	Features of iOLM Advanced	•	•	•	•
	iOLM Loopback (iLOOP)	•	•	•	–
	Automated MPO cable characterization and troubleshooting (with EXFO switch)	–	•	–	–

## SPECIALIZE YOUR iOLM WITH OPTIMODES

Optimodes are test configurations tailored to optimize specific use cases and go a step beyond the recognized iOLM performances.

### Optimode: Short-Link Closed Events

Applications: FTTA, Data Centers, FTTx

Tailored to short links with close connectors, this optimode offers the highest resolution achieved so far, and enables technicians to pinpoint which connector is problematic with greater accuracy and fix issues while on-site. This in turn reduces both installation time and time to repair.

SPECIFICATIONS	MAX-720B/FTB-720 SERIES	MAX-730B/FTB-730 SERIES
Maximum link length <sup>a</sup>	2500 m	2500 m
Maximum link loss	8 dB	10 dB
Detection of 5 m patchcord <sup>b</sup>	Up to 2.5 dB loss	Up to 3.5 dB loss

#### Notes

a. Total length, unidirectional or total loopback, including launch, loop and receive fibers.

b. At 1550 nm, for connector reflectance <= -55 dB

## Optimode: PON Last-Mile Certification

### Applications: FTTx

Tailored to last-mile certification, this optimode tests all connections between premises and the splitter (including the splitter, but excluding elements after the splitter).

With traditional last-mile OTDRs, the splitter is indicated as a fiber end. However, by only controlling the distance of the last mile, it is not possible to certify that the splitter is connected.

This optimode verifies that the last-mile fiber segment is really connected to the splitter, leaving no uncertainty as to the quality of the installation. In addition, with an OTDR equipped with an SM live port, this mode can be used on dark fiber or live networks.

Compatible modules: MAX-715B, MAX-730B, FTB-730 and FTB-7300E OTDR Series with the iOLM Advanced Pack.

SPECIFICATIONS		MAX-715B	MAX-730B/FTB-730/FTB-7300E
Measurement time <sup>a</sup>		30 s	15 s
Maximum link length		20 km	20 km
Maximum last-mile fiber length		5 km	5 km
Maximum last-mile fiber loss		2.5 dB	2.5 dB
Minimum fiber length after splitter or group (in the case of multistage PON)	1:2 splitter	20 m	15 m
	1:4 splitter	150 m	100 m
	1:8 splitter	400 m	100 m
	1:16 splitter	1500 m	400 m
	1:32 splitter	3500 m	1500 m
	1:64 splitter	–	3500 m

**Note**

a. For a single-stage splitter

## HOW TO PERFORM LOOPBACK MEASUREMENT USING THE EXFO PLATFORMS AND TEST METHODOLOGY

Test Methodology	iOLM		OTDR
	Unidirectional	Bidirectional	Unidirectional and bidirectional
MAX-700B	iLOOP	FR2: PC	FR2: PC
FTB-1/2	iLOOP	FR2: PC/FTB	FR2: PC/FTB
FTB-200	FR2: PC	FR2: PC	FR2: PC
FTB-500	iLOOP (to come)	FR2: PC	FR2: PC



Using the loopback test method and iLOOP option on your iOLM enables you to test two fibers at once. View only the A link, B link, or the complete A-B link including the loop.

*iLOOP = Loopback measurement achieved immediately in the field via iOLM iLOOP option.*

*FR2:PC/FTB = Loopback measurement achieved via post-processing in FastReporter2 software using a PC at the office, or using the FTB platform in the field.*

*FR2:PC = Loopback measurement achieved via post-processing in FastReporter2 software using a PC at the office.*

## RECOMMENDATIONS

### Angled Polished Connectors (APC) on a Singlemode Port

Like any OTDR, the iOLM will be affected by strong reflections at the unit's port. To ensure low reflection 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.

Ultra-polished connectors (UPCs), on the other hand, are prone to being highly reflective when contaminated, worn, or damaged. This affects singlemode measurement and leads to premature connector replacement. Although a UPC unit is not required for testing of a UPC network, using an APC/UPC test jumper or a launch fiber (SPSB) ensures compatibility.

### Test Method

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



## TROUBLESHOOTING OF HIGH-SPEED MULTIMODE NETWORKS WITH ENCIRCLED FLUX



SPSB-EF-C30

Whether for an expanding enterprise-class business or a large-volume data center, new high-speed data networks built with multimode fibers are running under tighter tolerances than ever before. In the event of failure, intelligent and accurate test tools are needed to quickly find and fix the fault.

Multimode fibers are the trickiest links to test, because the test results are highly dependent on each device's output conditions. Troubleshooting with a different unit than the construction unit may mislead the technician or result in the inability to find the fault, creating longer network downtimes.

For multimode fibers, EXFO recommends using an external launch mode conditioner that is Encircled Flux (EF)-compliant. The EF standard (as recommended in TIA-568 via TIA-526-14-B and IEC 61280-4-1 Ed. 2.0) is a way of controlling the source launch conditions so that tier-2 troubleshooting can be performed with maximum accuracy and consistency.

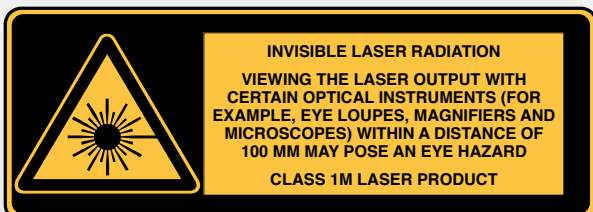
Use of an external EF-compliant device\* such as the SPSB-EF-C30 is a fast and easy way to fix faulty networks.

\*For more detailed information about EF compliance, please read the Encircled Flux test solution specification sheet.

## GENERAL SPECIFICATIONS

Model	MAX-715B/720B/730B	FTB-720 and FTB-730	FTB-7300E and FTB-7400E
Size (H x W x D)	200 mm x 155 mm x 68 mm (7 7/8 in x 6 1/8 in x 2 3/4 in)	130 mm x 36 mm x 252 mm (5 1/8 in x 1 7/16 in x 9 15/16 in)	97 mm x 25 mm x 260 mm (3 13/16 in x 1 in x 10 1/4 in)
Weight	1.29 kg (2.8 lb)	0.65 kg (1.4 lb) With FTB-1: 2.2 kg (4.8 lb)	0.55 kg (1.2 lb) With FTB-1: 2.2 kg (4.8 lb)
Temperature	Operating: -10 °C to 50 °C (14 °F to 122 °F) Storage: -40 °C to 70 °C (-40 °F to 158 °F)	0 °C to 50 °C (32 °F to 122 °F) -40 °C to 70 °C (-40 °F to 158 °F)	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 % noncondensing	0 % to 95 % non-condensing	0 % to 95 % non-condensing

## LASER SAFETY





## ORDERING INFORMATION

## MAX-715B-XX-XX-XX-XX-XX-XX-XX

**Model**

- M1 = Last-mile OTDR, 1310/1550 nm (9/125  $\mu$ m)
- M2 = Last-mile OTDR, 1310/1550 nm and 1625 nm live port (9/125  $\mu$ m)
- M3 = Last-mile OTDR, 1310/1550/1625 nm (9/125  $\mu$ m)

**Connectivity**

RF = With RF capability (Wi-Fi and Bluetooth)

**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
- EA-EUI-98 = APC/LC
- EI-connectors = See note below

**Base software**

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

**iOLM Software Option**

- 00 = iOLM Standard
- iADV = iOLM Advanced<sup>a</sup>
- iPRO = iOLM Pro<sup>a</sup>

**Connector adapter<sup>b</sup>**

- FOA-12 = Biconic
- FOA-14 = NEC D4: PC, SPC, UPC
- FOA-16 = SMA/905, SMA-906
- FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
- FOA-28 = DIN 47256, DIN 47256/APC
- FOA-32 = ST: ST/PC, ST/SPC, ST/UPC
- FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
- FOA-78 = Radiall EC
- FOA-96B = E-2000/APC
- FOA-98 = LC
- FOA-99 = MU

**Power meter**

- 00 = Without power meter
- PM2X = Power meter; GeX detector
- VPM2X = VFL and power meter; GeX detector

Example: MAX-715B-M1-EA-EUI-91-Oi-VPM2X-FOA-22-iADV

## ORDERING INFORMATION

## MAX-720B-XX-XX-XX-XX-XX-XX-XX

**Model**

- M1 = Access OTDR, 1310/1550 nm (9/125  $\mu$ m)

**Connectivity**

RF = With RF capability (Wi-Fi and Bluetooth)

**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
- EA-EUI-98 = APC/LC
- EI-connectors = See note below

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**Connector adapter<sup>b</sup>**

- FOA-12 = Biconic
- FOA-14 = NEC D4: PC, SPC, UPC
- FOA-16 = SMA/905, SMA-906
- FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
- FOA-28 = DIN 47256, DIN 47256/APC
- FOA-32 = ST: ST/PC, ST/SPC, ST/UPC
- FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
- FOA-78 = Radiall EC
- FOA-96B = E-2000/APC
- FOA-98 = LC
- FOA-99 = MU

**Power meter**

- 00 = Without power meter
- PM2X = Power meter; GeX detector
- VPM2X = VFL and power meter; GeX detector

Example: MAX-720B-M1-EA-EUI-91-Oi-VPM2X-FOA-22-iADV

**Notes**

- a. The features available in iOLM Advanced and Pro depend on the platform and the module. Please refer to the iOLM pack chart on page six of this specification sheet for details.
- b. If power meter is selected.

## ORDERING INFORMATION

MAX-730B-XX-XX-XX-XX-XX-XX-XX

**Model**

- M1 = FTTx/MDU PON, 1310/1550 nm (9/125  $\mu$ m)
- M2 = FTTx/MDU PON, 1310/1550 nm and 1625 nm live port (9/125  $\mu$ m)
- M3 = FTTx/MDU PON, 1310/1550/1625 nm (9/125  $\mu$ m)

**Connectivity**

- RF = With RF capability (Wi-Fi and Bluetooth)

**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
- EA-EUI-98 = APC/LC
- EI-connectors = See note below

**Base software**

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

**iOLM Software Option**

- 00 = iOLM Standard
- iADV = iOLM Advanced<sup>a</sup>
- iPRO = iOLM Pro<sup>a</sup>

**Connector adapter<sup>b</sup>**

- FOA-12 = Biconic
- FOA-14 = NEC D4: PC, SPC, UPC
- FOA-16 = SMA/905, SMA-906
- FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
- FOA-28 = DIN 47256, DIN 47256/APC
- FOA-32 = ST: ST/PC, ST/SPC, ST/UPC
- FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
- FOA-78 = Radiall EC
- FOA-96B = E-2000/APC
- FOA-98 = LC
- FOA-99 = MU

**Power meter**

- 00 = Without power meter
- PM2X = Power meter; GeX detector
- VPM2X = VFL and power meter; GeX detector

Example: MAX-730B-M1-EA-EUI-91-Oi-VPM2X-FOA-22-iADV

**Notes**

- a. The features available in iOLM Advanced and Pro depend on the platform and the module. Please refer to the iOLM pack chart on page six of this specification sheet for details.
- b. If power meter is selected.

## ORDERING INFORMATION

## Multimode and Singlemode Access and LAN/WAN OTDR for FTB-1 Platform

## 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

## Base Software

OTDR = Enables the OTDR application only  
 iOLM = Enables the iOLM application only  
 Oi = Enables iOLM and OTDR applications

## Singlemode 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  
 EA-EUI-98 = APC/LC  
 EI connectors = See note on next page about APC connectors

## iOLM Software Option

00 = iOLM Standard  
 iADV = iOLM Advanced<sup>a</sup>  
 iPRO = iOLM Pro<sup>a</sup>

## Multimode Connector

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  
 EI-EUI-98 = UPC/LC

Example: FTB-720-023B-04B-OTDR-EI-EUI-89-EA-EUI-89

## 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)  
 FTB-730-234B = SM OTDR module, 1310/1550/1625 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-730-23B-08B = SM and SM live OTDR module, 1310/1550 and 1650 nm live filtered port (9/125 μm)  
 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)

OPM Option<sup>b</sup>

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

## iOLM Software Option

00 = iOLM Standard  
 iADV = iOLM Advanced<sup>a</sup>  
 iPRO = iOLM Pro<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  
 EA-EUI-98 = APC/LC  
 EI connectors = See note on next page about APC connectors

## Base Software

OTDR = Enables the OTDR application only  
 iOLM = Enables the iOLM application only  
 Oi = Enables iOLM and OTDR applications

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

## Singlemode access OTDR for FTB-1 Pro Platform

## FTB-720C-XX-XX-XX-XX

## Model

FTB-720C-SM1 = 1310 nm/1550 nm  
 FTB-720C-SM2 = 1310 nm/1550 nm and 1625 nm live port

## Base Software

OTDR = Enables the OTDR application only  
 iOLM = Enables the iOLM application only  
 Oi = Enables iOLM and OTDR applications

## iOLM Software Option

00 = iOLM Standard  
 iADV = iOLM Advanced<sup>a</sup>  
 iPRO = iOLM Pro<sup>a</sup>

## Singlemode 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  
 EA-EUI-98 = APC/LC  
 EI connectors = See note on last page about APC connectors

Example: FTB-720C-SM1-OTDR-EA-EUI-89

## Notes

- a. The features available in iOLM Advanced and Pro depend on the platform and the module. Please refer to the iOLM pack chart on page six of this specification sheet for details.  
 b. Available with FTB-730-000-04B and FTB-730-23B-04B only.

## ORDERING INFORMATION (CONT'D)

## Singlemode (PON FTTx/MDU) for FTB-2, FTB-2 Pro, FTB-200 or FTB-500 Platform

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

## Model ■

## Dual Wavelength

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

## Triple Wavelength

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)

## 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 μm)

## Base Software ■

OTDR = Enables the OTDR application only  
 iOLM = Enables the iOLM application only  
 Oi = Enables iOLM and OTDR applications

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

## iOLM Software Option

00 = iOLM Standard  
 iADV = iOLM Advanced<sup>a</sup>  
 iPRO = iOLM Pro<sup>a</sup>

## OTDR Software Option

00 = Without software option<sup>b</sup>  
 AD = Macrobend finder and linear view<sup>c</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  
 EA-EUI-98 = APC/LC

EI Connectors: See note on next page about APC connectors

## Singlemode (METRO/CWDM) for FTB-2, FTB-2 Pro, FTB-200 or FTB-500 Platform

## FTB-7400E-XX-XX-XX-XX

## Model ■

## Dual Wavelength

FTB-7400E-0023B = SM OTDR module, 1310/1550 nm (9/125 μm)

## Triple Wavelength

FTB-7400E-0234B = SM OTDR module, 1310/1550/1625 nm (9/125 μm)

## Quadruple Wavelength

FTB-7400E-2347B = SM OTDR module, 1310/1383/1550/1625 nm (9/125 μm)  
 FTB-7400E-CWS = CWDM SM OTDR module, 1470/1490/1510/1530 nm (9/125 μm)  
 FTB-7400E-CWCL = CWDM SM OTDR module, 1550/1570/1590/1610 nm (9/125 μm)  
 FTB-7400E-CWO = CWDM SM OTDR module, 1270/1290/1310/1330 nm (9/125 μm)  
 FTB-7400E-CWE = CWDM SM OTDR module, 1350/1410/1430/1450 nm (9/125 μm)

## Base Software ■

OTDR = Enables the OTDR application only  
 iOLM = Enables the iOLM application only<sup>d</sup>  
 Oi = Enables iOLM and OTDR applications<sup>d</sup>

Example: FTB-7400E-2347B-Oi-EI-EUI-89-AD

## iOLM Software Option

00 = iOLM Standard  
 iADV = iOLM Advanced<sup>a</sup>  
 iPRO = iOLM Pro<sup>a</sup>

## OTDR Software Option

00 = Without software option<sup>b</sup>  
 AD = Macrobend finder and linear view<sup>c</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  
 EA-EUI-98 = APC/LC

EI Connectors: See note on next page about APC connectors

## SPSB-XX-XX

## Model ■

## Dual-Wavelength

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

## 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  
 104 = LC/APC

Example: SPSB-B-150-58-101

## Notes

- The features available in iOLM Advanced and Pro depend on the platform and the module. Please refer to the iOLM pack chart on page six of this specification sheet for details.
- Includes macrobend finder and linear view in FTB-2/FTB-2 Pro.
- Included in FTB-200. Not available in FTB-2/FTB-2 Pro.
- iOLM application is not available for 1383 nm.

## THE BENEFITS OF APC CONNECTORS FOR OTDR/IOLM TESTING



To maximize the performance of your OTDR, EXFO recommends using APC connectors on singlemode ports. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly in the dead zones. APC connectors provide better performances than UPC connectors, thereby improving testing efficiency.

For best results, APC connectors are mandatory on singlemode ports when using the iOLM application.

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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