

MaxTester 720D access OTDR

OPTIMIZED FOR MULTIMODE AND SINGLEMODE ACCESS NETWORK CONSTRUCTION AND TROUBLESHOOTING



- Fully featured, entry-level, dedicated OTDR with tablet-inspired design; perfect for construction, troubleshooting and everyday field testing in any access network.

COMPATIBLE WITH
EXchange



iOLM
READY



3-year
warranty



Swap-Out
connectors



ISE
NETWORK
INNOVATORS'
AWARDS
3.5

KEY FEATURES

- Rugged, handy, lightweight, tablet-inspired design built for outside plant
- 7-inch, outdoor-enhanced touchscreen—the biggest in the handheld industry
- 12-hour autonomy
- Dynamic range of up to 36 dB in singlemode (SM) and 29 dB in multimode (MM)
- Event dead zone (EDZ) / Attenuation dead zone (ADZ): 0.7/2.5 m in SM; 0.5/2 m in MM, PON dead zone 35 m
- Live and dark fiber characterization, troubleshooting and activation through the same OTDR port
- FTTx in-service OTDR testing at 1650 nm with optional in-line GPON/XGS-PON power meter
- OTDR, light source and power checker through single port to optimize the fiber handling process
- Swap-Out connector, replaceable whenever necessary for optimal performance over time without undue service cost and downtime
- iOLM-ready: one-touch multiple acquisitions, with clear go/no-go results presented in a straightforward visual format
- 3-year warranty
- SM and quad SM/MM versions available

APPLICATIONS

- Access network construction and troubleshooting
- FTTx/PON testing through splitters (up to 1×32)
- FTTx service activation: GPON, EPON, XGS-PON, 10GE EPON
- Central office link certification
- Data center and private networks (Tier-2 certification)
- LAN/WAN characterization
- Fronthaul/backhaul (FTTA, FTTT, RRH, DAS and small cells)

RELATED PRODUCTS AND ACCESSORIES



Fiber inspection scope
FIP-400B (WiFi or USB)

FastReporter

Advanced data
post-processing software



Soft pulse suppressor bag
SPSB



SM Swap-Out
connector



MM Swap-Out
connector

EXFO

THE HANDHELD OTDR... WITH PROVEN PERFORMANCE

The MaxTester 700D Series builds on the proven tablet-inspired, lightweight and rugged OTDR MaxTester platform. The familiar 7-inch, outdoor-enhanced touchscreen continues to deliver an unprecedented user experience with its intuitive Windows-like GUI ensures a fast learning curve. The OTDR environment offers icon-based functions, instant boot-up, automatic macrobend finders as well as improved auto and real-time modes.

The MaxTester 700D Series is a line of genuine high-performance OTDRs from the world's leading manufacturer. It delivers EXFO's tried and true OTDR quality and accuracy along with the best optical performance for right-first-time results, every time.

The amazing 12-hour battery life will never let a technician down, and the plug-and-play hardware options, like the VFL, power meter and USB tools, make every technician's job easier.

Most importantly, the MaxTester 700D Series comes with the intelligent Optical Link Mapper (iOLM), an intelligent OTDR-based application. This advanced software turns even the most complex trace analysis into a simple, one-touch task.

Ultimately, the MaxTester 700D Series is small enough to fit in your hand and big enough to fit all your needs!

ENTRY-LEVEL SOLUTION DESIGNED FOR ALL YOUR TESTING NEEDS

The MaxTester 720D OTDR/iOLM features a dynamic range of 36 dB in singlemode and 29 dB in multimode, as well as industry-leading dead zones. This ensures efficient testing of closely spaced events such as patchcords in data centers, or patch panels in central offices (COs). The MaxTester 720D is optimized for point-to-point (P2P) testing of any access network, and is suitable for testing through 1x32 splitters.

The 1650-nm, out-of-band, live testing capabilities enable efficient troubleshooting of active networks without impacting the signal of other clients.

SWAP-OUT CONNECTOR

The MaxTester 700D OTDR Series comes with a Swap-Out connector which can easily be changed, as and when needed, without having to send the test unit to a service center. This ensures optimal performance over time without undue maintenance costs and downtime. The OTDR's optical connector health can be checked with an onboard diagnostic tool to replace the connector only when necessary.

Your calibration date remains valid, even after swapping the connector. No need to calibrate your unit sooner than planned.

SECURE YOUR INVESTMENT AGAINST THEFT

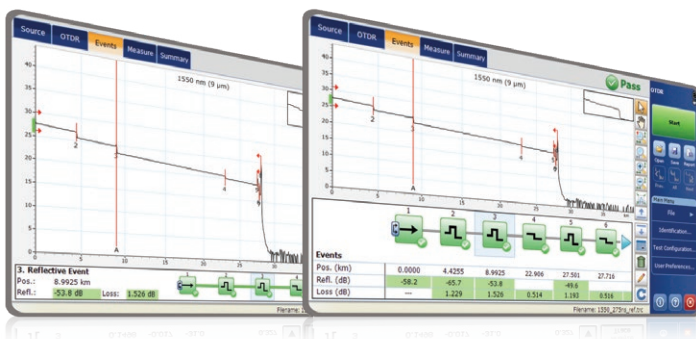
Protected instruments have no value on the black market making them completely unappealing to thieves. With our security management option, administrators can define and load a tamper-proof security profile on the MaxTester, displaying a property message on the home screen and securing it with a user password (permanent or renewable).



LOOKING FOR ICON-BASED MAPPING?

Linear view (included with all EXFO OTDRs)

Available on our OTDRs since 2006, the linear view simplifies the reading of an OTDR trace by displaying icons in a linear way for each wavelength. This view converts the graph data points obtained from a traditional single pulse trace into reflective, non-reflective or splitter icons. With applied pass/fail thresholds, it becomes easier to pinpoint faults on your link.



This improved version of linear view provides the flexibility to display both the OTDR graph and its linear view without having to toggle to analyze your fiber link.

Although this linear view simplifies the OTDR reading of a single pulse width's trace, the user will still need to set the OTDR parameters. In addition, multiple traces must often be performed in order to fully characterize the fiber links. See the section below to learn how the iOLM can perform this automatically and with more accurate results.

iOLM—REMOVING THE COMPLEXITY FROM OTDR TESTING

OTDR testing comes with its load of challenges...



In response to these challenges, EXFO developed a better way to test fiber optics: The iOLM is an OTDR-based application 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.

How does it work?



Turning traditional OTDR testing into clear, automated, first-time-right results for technicians of any skill level.

Three ways to benefit from the iOLM



iOLM features value pack and options

In addition to the standard iOLM feature set, you can select added-value features as part of the **Advanced** packages or standalone options. Please refer to the [iOLM specification sheet](#) for the complete and most recent description of these features.

iOLM Standard

- Dynamic multipulse multiwavelength acquisition
- Intelligent traces analysis and diagnostics
- Single link view and event table
- SOR trace generation
- Single iOLM file per link for easy reporting
- **Optimode**: Short-link close events, fast short link, fast medium range

iOLM Advanced (iADV)^a

- Real-time OTDR
- SOR pulse and wavelength editor
- SOR trace view
- Custom elements
- Advanced link edition and re-analysis
- 2:N splitter characterization
- **Optimode**: SFP-safe troubleshooting^b

iLOOP^a

- iOLM loopback (uni- or bidirectional)^b
- iOLM automated bidirectional analysis over TestFlow^{b,c}

iCERT^a

- Cabling certification option

a. Require enabling iOLM standard.

b. SM only, configuration without splitter.

c. Requires TestFlow subscription.

GET ALL ADVANCED CAPABILITIES FOR FREE

FastReporter is a consolidated data management and post-processing solution designed to improve results quality as well as auditing and reporting productivity.

Download the latest version of FastReporter, launch the application and create your EXFO Exchange account to get the full range of capabilities, at no cost. EXFO Exchange automates and optimizes workflows, troubleshooting, field testing and reporting within a secured collaborative software platform for each step of network deployment.

FEATURES	FastReporter (version 3)	
	Basic	Full (now free with EXFO Exchange account)
Number of files	Up to 24 results	Unlimited
Measurement type	OTDR, iOLM, FIP, OLTS, OPM, CD, PMD	
Results viewer	•	•
Reporting – Basic (PDF)	•	•
Reporting – Advanced (Excel, PDF, custom)		•
Basic analysis – Bidir (OTDR and iOLM)	•	•
Advanced editing		•
Automated validation and results correction		•
Job management and identification edition	One file	Batch processing
Hundreds of additional features		•

Table 1. Comparison of basic and full versions of FastReporter (version 3).

TROUBLESHOOTING HIGH-SPEED MULTIMODE NETWORKS WITH ENCIRCLED FLUX

Whether for expanding enterprise-class businesses or large-volume data centers, 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 unit other 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.



OPTICAL PLUG-AND-PLAY OPTIONS

The MaxTester features plug-and-play optical options that can be purchased whenever you need them: at the time of your order or later on. In either case, installation is a snap, and can be performed by the user without the need for any software update.

Optical power meter

EXFO's high-level power meter (GeX) can measure up to 27 dBm, the highest in the industry. This is essential for hybrid fiber-coaxial (HFC) networks or high-power signals. If used with an auto-lambda/auto-switching compatible light source, the power meter automatically synchronizes on the same wavelength, thus avoiding any risk of mismatched measurement.

Visual fault locator (VFL)

The plug-and-play VFL easily identifies breaks, bends, faulty connectors and splices, in addition to other causes of signal loss. This basic, yet essential troubleshooting tool should be part of every field technician's toolbox. The VFL visually locates and detects faults over distances of up to 5 km by creating a bright-red glow at the exact location of the fault on singlemode or multimode fibers (available with the optical power meter only).

FIBER CONNECTOR INSPECTION AND CERTIFICATION– THE ESSENTIAL FIRST STEP BEFORE ANY OTDR TESTING

Taking the time to properly inspect a fiber-optic connector using an EXFO fiber inspection scope can prevent a host of issues from arising further down the line, thus saving you time, money and trouble. Moreover, using a fully automated solution with autofocus capabilities will turn this critical inspection phase into a fast and hassle-free one-step process.

Did you know that the connector of your OTDR/iOLM is also critical?

The presence of a dirty connector at an OTDR port or launch cable can negatively impact your test results, and even cause permanent damage during mating. Therefore, it is critical to regularly inspect these connectors to ensure that they are free of any contamination. Making inspection the first step is a proven best practice that will maximize your OTDR performance and your efficiency.



FEATURES	USB WIRED FIP-430B	WIRELESS FIP-435B	AUTONOMOUS FIP-500
Image capture	•	•	•
Five-megapixel CMOS capturing device	•	•	•
Automatic fiber image-centering function and focus adjustment	•	•	•
Automatic fiber image-focus adjustment	•	•	•
On-board pass/fail analysis	•	•	•
Pass/fail LED indicator	•	•	•
USB connectivity to an EXFO platform or PC	•	•	
Wireless connectivity to an EXFO platform or PC		•	
Wireless connectivity to a smartphone		•	•
Semi-automated multifiber / MPO inspection	•	•	
Fully automated multifiber / MPO inspection			•
On-board touch screen and data storage			•
SmArTips with automated thresholds and quick-connect mechanism			•

For more information, visit www.EXFO.com/fiberinspection.

SOFTWARE UTILITIES

Software update	Ensure that your MaxTester is up-to-date with the latest software.
VNC configuration	The Virtual Network Computing (VNC) utility allows technicians to easily remote control the unit via a computer or laptop.
Data mover	Transfer all your daily test results quickly and easily.
Centralized documentation	Instant access to user guides and other relevant documents.
PDF Reader	View your reports in PDF format.
Bluetooth file sharing	Share files between your MaxTester and any Bluetooth-enabled device.
WiFi connection	WiFi FIP inspection scope interface. Upload test results.
Inspection scope	USB or WiFi scope to inspect and analyze connectors.
FTP server	Exchange files over WiFi to an FTP application on a smartphone for easier file sharing from the field.
Security management	Tamper-proof security profile with user password (permanent or renewable) and custom property message.

PACKAGED FOR EFFICIENCY

- 1 SM/Live OTDR port
- 2 Swap out connector screw
- 3 Testing LED indicator
- 4 Stylus
- 5 Power meter
- 6 Visual fault locator
- 7 10/100 Mbit/s Ethernet port
- 8 Two USB 2.0 ports
- 9 AC adapter
- 10 Home/switch application and screen capture (hold)
- 11 Power on/off/stand by
- 12 Battery LED status
- 13 Built-in WiFi/Bluetooth
- 14 Stand support
- 15 MM OTDR port on quad model

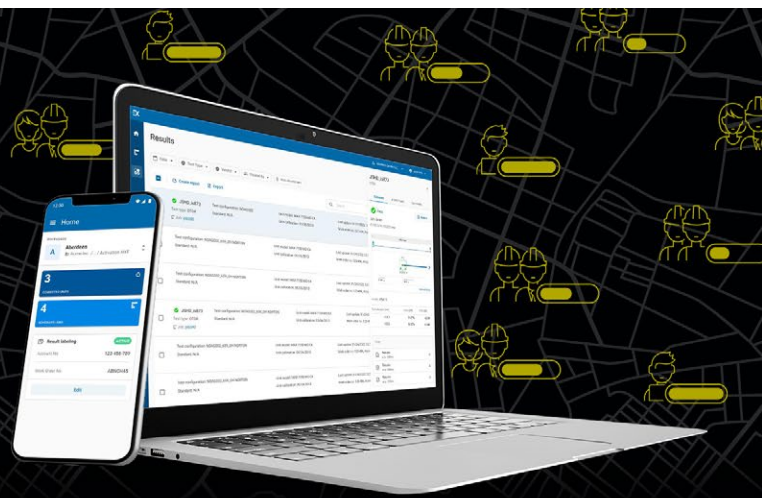




SHARE TEST RESULTS. BOOST COMPLIANCE. UNLOCK INSIGHTS.

Cloud-hosted solution for sharing test results and ensuring compliance.

Paired with EXFO's leading test instruments, EXFO Exchange drives an entire ecosystem, while integrating seamlessly with existing operation processes.



KEY BENEFITS



Automate test results management



Boost compliance and efficiency



Improve collaboration and visibility



Access comprehensive reporting



Unlock insights to see what matters

SIMPLE SETUP IN THREE STEPS

1

Create your free EXFO Exchange account

Begin your journey by creating an EXFO Exchange account. Setting up your account is quick and easy.



2

Install the mobile app

Download the EXFO Exchange app to allow test data from compatible EXFO devices to be uploaded securely to the cloud (free of charge).



For MaxTester and FTB users, install the native app.



3

Save time and boost efficiency

Once your account created—and the mobile app installed and paired with compatible EXFO devices—all test results will be sent to the cloud. On the web app, you will see field test results from all invited testers.



SPECIFICATIONS ^a

TECHNICAL SPECIFICATIONS	
Display	7-in (178-mm) outdoor-enhanced touchscreen, 800 x 480 TFT
Interfaces	Two USB 2.0 ports RJ45 LAN 10/100 Mbit/s
Storage	2 GB internal memory (20 000 OTDR traces, typical)
Batteries	Rechargeable lithium-polymer battery 12 hours of operation as per Telcordia (Bellcore) TR-NWT-001138
Power supply	Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz
Wavelength (nm) ^b	850 ± 20/1300 ± 20/1310 ± 30/1550 ± 30/1650 ± 15
Live wavelength (nm)	1650 Isolation: 50 dB from 1265 nm to 1617 nm
Dynamic range (dB) ^c	27/29/36/35/35
Event dead zone (m) ^d	SM: 0.7 MM: 0.5
Attenuation dead zone (m)	SM: 2.5 ^e MM: 2 ^f
PON dead zone (m) ^g	35
Distance range (km)	MM: 0.5 to 40 SM: 0.1 to 260
Pulse width (ns)	MM: 3 to 1000 SM: 3 to 20 000
MM launch conditions ^h	EF-compliant
Linearity (dB/dB)	±0.03
Loss threshold (dB)	0.01
Loss resolution (dB)	0.001
Sampling resolution (m)	MM: 0.04 to 5 SM: 0.04 to 10
Sampling points	Up to 256 000
Distance uncertainty (m) ⁱ	±(0.75 + 0.0025 % x distance + sampling resolution)
Measurement time	User-defined
Reflectance accuracy (dB) ^b	±2
Typical real-time refresh (Hz)	3

IN-LINE POWER CHECKER

Power range (dBm)	-60 to 23
Power uncertainty (dB) ^{j,k}	±0.5
Calibrated wavelengths (nm)	1310, 1490, 1550, 1625, 1650
Selectable wavelengths (nm)	1310, 1490, 1550, 1577, 1625, 1650
Tone detection	270 Hz/330 Hz/1 kHz/2 kHz

a. All specifications valid at 23 °C ± 2 °C with an FC/APC connector, unless otherwise specified.

b. Typical.

c. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.

d. Typical, for reflectance of -55 dB in SM and -45 dB in MM.

e. Typical, for reflectance at -55 dB, using a 3-ns pulse.

f. Typical, for reflectance at -45 dB, using a 3-ns pulse.

g. Non-reflective FUT, non-reflective splitter, 13-dB loss, 50-ns pulse, typical value.

h. Compliant with Encircled Flux TIA-526-14-B and IEC 61280-4-1 Ed. 2.0 using an external EF conditioner (SPSB-EF-C-30).

i. Does not include uncertainty due to fiber index.

j. At calibrated wavelengths.

k. Requires a good entry connector's health.

TECHNICAL SPECIFICATIONS (in-line PON power meter with OPM2 in option) ^{a, b}

Power range (dBm)	-60 to 23
PON power meter (nm)	Two channels: 1490/1550 and 1490/1577
Power uncertainty (dB) ^c	±0.5
Calibrated wavelengths (nm)	1310, 1490, 1550, 1625, 1650
Selectable wavelengths (nm)	1310, 1490, 1550, 1577, 1625, 1650, 1490/1550, 1490/1577

SOURCE

Output power (dBm) ^d	MM: -2 SM: -8
Modulation	CW, 330 Hz, 1 kHz, 2 kHz

GENERAL SPECIFICATIONS

Size (H x W x D)	166 mm x 200 mm x 68 mm (6 9/16 in x 7 7/8 in x 2 3/4 in)
Weight (with battery)	1.5 kg (3.3 lb)
Temperature	-10 °C to 50 °C (14 °F to 122 °F)
Operating	-40 °C to 70 °C (-40 °F to 158 °F) ^c
Storage	
Relative humidity	0 % to 95 % non-condensing

BUILT-IN POWER METER SPECIFICATIONS (GeX) (optional) ^e

Calibrated wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1577, 1625, 1650
Selectable wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1577, 1625, 1650
Power range (dBm) ^a	27 to -50
Uncertainty (%) ^f	±5 % ± 10 nW
Display resolution (dB)	0.01 = max to -40 dBm 0.1 = -40 dBm to -50 dBm
Automatic offset nulling range ^{a, g}	Max power to -30 dBm
Tone detection (Hz)	270/330/1000/2000

ACCESSORIES (optional)

GP-10-061	Soft carrying case	GP-2209	Spare battery
GP-10-072	Semi-rigid carrying case	GP-2240	Utility glove
GP-10-100	Rigid carrying case	GP-2242	Replacement hand strap
GP-1008	VFL adapter (2.50 mm to 1.25 mm)	GP-2243	Spare AC/DC adapter (specify country power cord)
GP-2155	Carry-on size backpack	GP-3115	Kickstand
GP-2205	DC vehicle battery-charging adaptor (12 V)	SPSB-EF-C30	Encircled Flux launch cables (specify connectors)
GP-2208	Spare stylus		

VISUAL FAULT LOCATOR (VFL) (optional)

Laser, 650 nm ± 10 nm
CW/Modulate 1 Hz
Typical P _{out} in 62.5/125 μm: > -1.5 dBm (0.7 mW)
Laser safety: Class 2

LASER SAFETY (Complies with FDA 1040.10 and IEC 60825-1:2014)

With VFL:			Without VFL:	
	LASER 2			ATTENTION CAUTION LASER 1M

a. Typical.

b. Specifications valid when OTDR not in operation or in idle mode.

c. -20 °C to 60 °C (-4 °F to 140 °F) with the battery pack.

d. Typical output power is given at 1300 nm for MM output and 1550 nm for SM output.

e. At 23 °C ± 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 20-minute warm-up.

f. At calibration conditions.

g. For ±0.05 dB, from 10 °C to 30 °C.

ORDERING INFORMATION

MAX-720D-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX

Optical configuration

- SM1 = SM OTDR, 1310/1550 nm
- SM8 = SM OTDR, 1310/1550 nm and 1650 nm live on single port
- Q1-QUAD = QUAD OTDR, 850/1300 nm and 1310/1550 nm^{a, b}

Base software

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

SM and MM connector^c

- 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-EUI-28 = UPC/DIN 47256
- 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
- EI connectors = See section below

iOLM software pack^d

- 00 = iOLM Standard
- iADV = iOLM Advanced

Software option

- 00 = Without additional software option
- iLOOP = iOLM loopback mode^d
- iCERT = iOLM tier-2 certification^d
- PSWRD = Security management option

Power meter

- 00 = Without power meter
- VFL = Visual fault locator (650 nm)
- PM2X = Power meter; GeX detector
- VPM2X = VFL and power meter; GeX detector

WiFi and Bluetooth

- 00 = Without RF components
- RF = With RF capability (WiFi and Bluetooth)^{e, f}

Extra FIPT-400B tips^g

- Bulkhead tips**
- FIPT-400-LC = LC tip for bulkhead adapters^h
- FIPT-400-LC-APC = LC/APC tip for bulkhead adapterⁱ
- FIPT-400-SC-APC = SC APC tip for bulkhead adapterⁱ
- FIPT-400-SC-UPC = SC UPC tip for bulkhead adapter^h

Patchcord tips

- FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules^h
- FIPT-400-U12MA = Universal patchcord tip for 1.25 mm ferrules APCⁱ
- FIPT-400-U25M = Universal patchcord tip for 2.5 mm ferrules^h
- FIPT-400-U25MA = Universal patchcord tip for 2.5 mm ferrules APCⁱ

Base tips^j

- APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC
- UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Inspection scope model^k

- 00 = Without inspection scope
- FP430B = Automated analysis digital video inspection scope
 - Automated focus
 - Automated pass/fail analysis
 - Triple magnification
 - Autocentering
- FP435B = Wireless analysis digital video inspection scope^l
 - Automated focus
 - Automated pass/fail analysis
 - Triple magnification
 - Autocentering

Power meter connector adapter^l

- FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
- FOA-32 = ST: ST/PC, ST/SPC, ST/UPC
- FOA-54B = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
- FOA-96B = E-2000/APC
- FOA-98 = LC
- FOA-99 = MU

Example: MAX-720D-Q1-QUAD-Oi-EA-EUI-98-iCERT-VPM2X-FOA-98-FP430B-UPC

- a. The two ports are configured with the same adapter type.
- b. MM connector port will be supplied in UPC.
- c. MM connectors available in EI (UPC) only.
- d. Please refer to the [iOLM specification sheet](#) for the complete and most recent description of these value packs. Only available if iOLM or Oi base software option is selected.
- e. Not available in China.
- f. RF option is mandatory and automatically included if FP435B fiber inspection scope model is selected.
- g. This list represents a selection of fiber inspection tips that covers the most common connectors and applications but does not reflect all the tips available. EXFO offers a wide range of inspection tips, bulkhead adaptors and kits to cover many more connector types and different applications. Please contact your local EXFO sales representative or visit www.EXFO.com/FIPTips for more information.
- h. Included when UPC base tips are selected.
- i. Included when APC base tips are selected.
- j. Available if inspection scope is selected.
- k. Includes ConnectorMax2 software.
- l. Only available if power meter option is selected. Additional connector adapters available, contact EXFO.

EI CONNECTORS



To maximize the performance of your OTDR, EXFO recommends using APC connectors on SM port. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly in dead zones. APC connectors provide better performance 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 connector available: EI-EUI-90 (UPC/ST).

EXFO headquarters T +1 418 683-0211 **Toll-free** +1 800 663-3936 (USA and Canada)

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

For the most recent patent marking information, please visit www.EXFO.com/patent. EXFO is certified ISO 9001 and attests to the quality of these products. 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.**

For the most recent version of this spec sheet, please go to www.EXFO.com/specs.

In case of discrepancy, the web version takes precedence over any printed literature.

