

# Data centers and enterprise networks

Automated fiber  
certification and test  
solutions

Smarter  
network  
in sight.™

**EXFO**

# The world is moving to fiber. Are you ready?

## Rising challenges

**Tighter fiber certification requirements**

**Complex testing steps and procedures**

**Evolving technologies**

**Bulky data processing and admin tasks**

When it comes to fiber testing, EXFO is the world's leading expert.



### **Fully automated test process**

Simplify and speed up your testing steps



### **Expert guidance every step of the way**

Onboard guidance makes it easy to follow best practices



### **Best-in-class accuracy**

Say goodbye to repeat jobs, get reliable results from day one



### **Standards compliance**

Instantly verify compliance to industry standards (TIA/IEC)



### **Fast-tracked reporting**

Close more jobs faster and get paid faster

The digital version contains hyperlinks to product demos, videos and webpages. To view this document online, go to: [www.EXFO.com/dc-enterprise-portfolio](http://www.EXFO.com/dc-enterprise-portfolio)

## Fiber certification that evolves with your needs.

### Tier-1 fiber certification

Also available in kits:  
SM, MM and QUAD



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#### MaxTester 940/945 Fiber Certifier OLTS

Fast testing of total link loss, which is ideal for fiber certification or MAC transceiver link validation.

- 100% automated, one-step process with pass/fail analysis at both ends of the fiber
- Tests two fibers at two wavelengths under three seconds
- Certifies against multiple industry standards (IEC/TIA/ISA) at once
- Encircled Flux compliant
- 3 year warranty/calibration included to lower the cost of ownership and downtime

### Tier-2 fiber certification and troubleshooting



#### MaxTester 720C / FTB-720C Access OTDR

Compact quad units optimized for testing singlemode and multimode fiber.

- Handy, lightweight, powerful, tablet-inspired design
- Available in three models: quad (multimode/singlemode), multimode quad-ready and singlemode
- Includes power meter, visual fault locator, WiFi connectivity and high-resolution inspection capabilities, making this unit an integrated tool for contractors and field teams.
- iOLM-ready

### Combined Tier-1 and Tier-2 fiber certification



#### TK1-V2-All-in-one Tier-1 and Tier-2 testing

Save time and operating expenses with an OLTS and OTDR on the same test set, featuring automated test routines performed within seconds.

- Unmatched FasTesT™ performances: 100% automated bidirectional test at two wavelengths < 5 seconds (Simplex)
- Combined singlemode/multimode wavelengths (Quad model)
- Tier 1 and Tier 2 iCERT pre-defined test configurations based on latest industry pass/fail thresholds to automatically certify cable installations
- iOLM-ready

### iOLM: Simplifies OTDR tests, fault finding and diagnostics



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#### intelligent Optical Link Mapper (iOLM)

Automated, expert-level singlemode & multimode fiber testing that eliminates the need to manually configure parameters or to analyze and interpret multiple complex OTDR traces.

- Provides one-touch, automatic analysis and clear link view display
- Identifies each event on the link and pinpoints any fiber issues (i.e., the specific patch panel or connector or splice causing the issue)
- Self-setting unit dynamically adapts to any fiber link
- Intelligent multi-acquisitions at multiple wavelengths in a single icon-based link view
- iCERT option: automated pass/fail thresholds (TIA/IEC) for enterprise/data center

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## We got your basics covered.

### Fiber inspection portfolio

It's a fact: dirty or damaged fiber connectors are one of the most common causes of network failures. EXFO offers fully automated inspection solutions to help you apply best practices and keep faulty connectors in check.

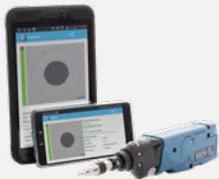


Watch the video >

#### FIP-400B Series—Fiber inspection probes

These intelligent and automated probes simplify fiber inspection into a faster, one-step process. They deliver accurate and consistent test results and prevent false-positive results.

- 100% automated, one-step inspection process
- On-board connector endface analysis (IEC, IPC or custom standards)
- Optimal digital image quality with three levels of magnification
- Pass/fail LED indicator for immediate visual diagnosis of connector health



Watch the video >

#### FIP-400B Wireless—Fiber inspection probe

No wires. No heavy platform. No cumbersome power pack or adaptors. Bring it with you anywhere!

- 100% automated features and analysis capabilities (same as USB model)
- Pass/fail LED indicator for immediate visual diagnosis of connector health
- Feature-rich ConnectorMax2 mobile application for Android™ and iOS devices
- All-day battery life



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#### MPO connector inspection tip (Compatible with MF-ready FIP)

- Automated and fumble-free: Just pull the trigger to inspect single- or dual-row fiber connectors (12/24 or 16/32) without the hassle of manipulating scanning knobs
- Right the first time: No repeats, no fibers missed, no confusion. View and validate all fibers on the first try
- Find dirty connectors—fast: specifically designed for accessing dense panels and minimizing inspection time
- Just one probe to inspect both multifiber and single-fiber connectors

### MPO testing



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#### TK-SWITCH MPO for singlemode fiber

Go beyond insertion loss and fully characterize each fiber of MPO- or MTP-connectorized cables with an intelligent and automated test process. Get accurate reflectance measurement, essential for 100G+ network migration.

- Test, in automated sequence, the individual fibers of an MPO- or MTP-connectorized cable, inside or outside the data center
- Leverage the power of iOLM/OTDR to precisely locate faults and measure connector reflectance

## Essential fiber verification tools

**Handhelds—Light sources and power meters**



MPC-100 optical power checker



FiberBasix50 kits (ELS-50 / EPM-50)



FLS-300 / FPM-300 Series



FLS-600 / FPM-600 Series

**Visual fault locators**



FLS-140



FLS-240

**Live fiber detector**



LFD-300B/TG-300B

**Encircled Flux (EF) solutions**



FLS-600 light source and SPSB-EF launch mode conditioner

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## Passive optical LAN (POL)



Also called OLAN or fiber-to-the-desktop, this GPON-based technology creates a very cost-effective local area network (LAN) with virtually unlimited capabilities.

**Test your POL networks equipped with EXFO's renowned FTTH expertise.**

### PON-aware™ power meter



PPM 350D

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Joint PON testing demo at BICSI 2018

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### FTTH/PON optimized OTDRs



MaxTester-730C



FTB-730C

## Protocol testing and validation

**Ethernet handheld tester up to 10G**



EtherCHK kits

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**Validate any pluggable transceiver from 10M to 100G**



iOptics

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## Process automation and reporting

**Efficient data post-processing**



FastReporter2

**Automated field test management and analytics**



TestFlow

## Key features and characteristics

### Tier-1 and Tier-2 fiber certification

Features	MAX-94X-iCERT	MAX-720C	FTB-1v2-720C	TK1-v2	FTB-2-720C-945
Fiber connector inspection (with FIP-400B)	X	X	X	X	X
Tier-1 fiber certification	X			X	X
Tier-2 fiber certification (OTDR/iOLM)		X	X	X	X
Fully automated Tier-2 fiber certification under 10 seconds per fiber per wavelength		X	X	X	X
Certifies against multiple industry standards at once (TIA-568, ISO/IEC 14763-3, ISO/IEC 11801, IEEE, ANSI Fibre Channel Standards)	X	X	X	X	X
Encircled Flux launch condition compliant	X	X	X	X	X
ORL measurement	X	X	X	X	X
Onboard assistant and diagnosis	X	X	X	X	X
Connector reflectance characterization		X	X	X	X
Automated 12 fiber MPO length/loss (singlemode)		X	X	X	X
Automated 12 fiber MPO characterization and troubleshooting (singlemode)		X	X	X	X
External 12 fiber MPO switch (singlemode)		X	X	X	X
Test result management and reporting	X	X	X	X	X
Onboard results batch processing software to close jobs faster from the field			X	X	X

### Optical light sources (OLS) and power meters (OPM)

Features	FiberBasix 50	FPM-600	FLS-600
Broadband optical power measurement	X	X	
Absolute and insertion loss measurement	X	X	
User-configurable pass/fail thresholds with LED indicator		X	
Auto-wavelength switching mode		X	X
Optical source Encircled Flux compliant			X
Onboard results storage		X	
Integrated display	X	X	X
Test result reporting		X	X
Tone detection (270 Hz, 1 kHz, 2 kHz) to identify the target fiber	X	X	
Tone generation (270 Hz, 1 kHz, 2 kHz) on dark fiber	X		X

### FIP-400B Series of fiber inspection probes

Features	USB wired			Wireless	
	FIP-410B	FIP-420B	FIP-430B	FIP-425B	FIP-435B
Three magnification levels	X	X	X	X	X
Image capture	X	X	X	X	X
Five-megapixel CMOS capturing device	X	X	X	X	X
Automatic fiber image-centering function		X	X	X	X
Automatic focus adjustment			X		X
Onboard pass/fail analysis		X	X	X	X
Pass/fail LED indicator		X	X	X	X
WiFi connectivity				X	X
Manual scanning for multifiber/MPO connectors	X	X	X	X	X
Automated multifiber/MPO inspection				X	X