

# PXM/LXM

## DUPLEX AND MULTI-FIBER OPTICAL LOSS TEST SET (OLTS)

- Full-featured duplex and multi-fiber power meter and light source with the industry's fastest test speeds.
- Tier-1 duplex and multi-fiber certification with loss, polarity, and length measurement and on-board certification standards.

COMPATIBLE WITH  
**EXchange**

**FASTEST**

**FastReporter**  
Data post-processing software

2024  
**LIGHTWAVE**  
4.0 INNOVATION  
REVIEWS

**ISE**  
GOLD  
NETWORK  
INNOVATORS  
AWARDS

**CABLING  
INNOVATORS**  
AWARDS  
PLATINUM HONOREE

### KEY FEATURES

- Supports native duplex and 8/12/16/24 fiber-based testing
- Supports 32 and 48 fibers using loopback or dual test set methods
- Click-Out adapters compatible with duplex MDC, SN, LC as well as MPO, SYSTIMAX MTP and MMC
- Leading FasTesT™ performance: test duplex and multi-fiber cables at 2 wavelengths in just 1 second
- Dual wavelength on light source (850/1300 nm or 1310/1550 nm)
- Insertion loss measurement
- Polarity type validation (duplex and multi-fiber)
- Up to 25 km in length measurement
- On-board certification standards with dynamic loss calculator
- In-line visual fault locator (VFL) for fiber tracing on source (LXM)
- Comprehensive results combined on one page
- 4-inch color touchscreen
- 3-year calibration interval
- Complies with one-cord reference method
- Test results upload and real-time job progress visibility via EXFO Exchange

PXM: duplex and multi-fiber power meter  
▼

LXM: duplex and multi-fiber light source (singlemode or multimode)  
▼



### APPLICATIONS

- AI supercomputer clusters
- Hyperscaler data centers
- Enterprise
- Private networks

### ON-BOARD CERTIFICATION STANDARDS

#### Network standards

- 25/50GBASE-SR
- 40GBASE-SR4
- 100G-PSM4 2.0
- 100GBASE-DR/VR1/SR1/SR2/SR4
- 200GBASE-VR2/SR2/DR4
- 400GBASE-DR4/SR4.2/SR8
- 800GBASE-VR8/SR8/DR8/DR8-2
- 128GFC-PSM4/SW4
- 256GFC-SW4

#### Cabling standards

- ISO/IEC 14763-3:2024
- TIA-568.3-D/E (inside plant)
- TIA-568.3-D/E (outside plant)
- EN50173:2011

### RELATED PRODUCTS



[Fiber inspection scope  
FIP-500](#)



[Cleaning supplies for duplex  
and multi-fiber connectors](#)



[Test cords](#)

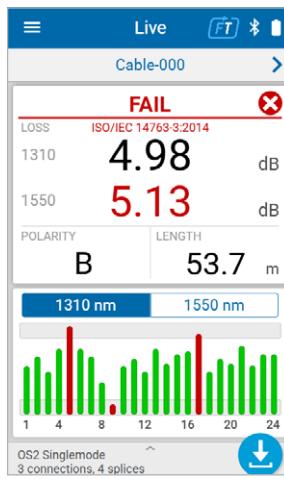
**EXFO**

## FasTesT™: DUPLEX AND MPO TESTING MADE SIMPLE AND FAST

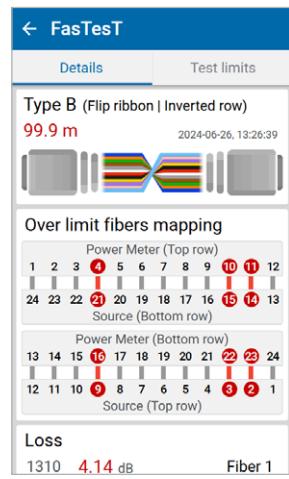
The PXM/LXM combo is a duplex and multi-fiber tester designed to efficiently qualify a large number of duplex or multi-fiber links. It tests duplex and multi-fibers natively up to 24 fibers cables at 2 wavelengths in just 1 second, the fastest test time in the industry. The FasTesT feature provides loss per channel at the 2 selected wavelengths, as well as the length and polarity type of the link under test automatically when continuity is detected.

## COMPREHENSIVE DUPLEX OR MULTI-FIBER PASS/FAIL RESULTS, ALL ON ONE PAGE

- Global pass/fail status and pass/fail per fiber with length measurement.
- Insertion loss per wavelength.
- Polarity type (A, B, C or U) for multi-fiber and polarity type (A-A, A-B) for duplex fibers with graphical representation.
- Pass/fail on actual polarity type versus expected polarity type.
- Full details available on FasTesT results and fiber results page.



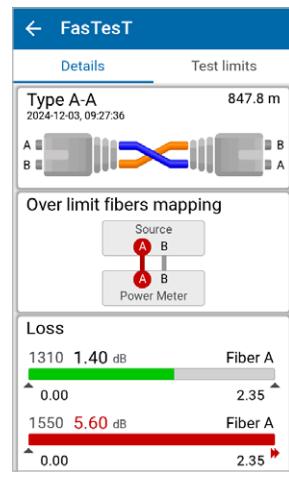
FasTesT multi-fiber main screen



Multi-fiber polarity



FasTesT duplex main screen (P12/P24 models)



Duplex polarity (P12/P24 models)

## IN-LINE VISUAL FAULT LOCATORS

The LXM light source includes a VFL that is in-line on the same port as the MPO source itself. Combining those two features on the same port makes them convenient to use. The VFL can trace a fiber right to the other end of the link so that the technician on the other end can easily find the MPO port to which they need to connect the PXM. The VFL also makes it easy to locate macrobends or breaks in the fiber.

## VERSATILE MULTI-FIBER TESTING

AI and data center applications are driving new fiber-optic cabling requirements and the adoption of various types of multi-fiber links for a range of parallel optic applications. EXFO's versatile test solution makes it easy to certify a variety of trunk and multi-fiber cables for fiber applications with base 8, 12, 16, 24, up to even 32 or 48.

## UNIQUE CLICK-OUT ADAPTER SYSTEM

The PRO version offers a unique Click-Out adapter system allowing to adapt the instrument connectivity to fiber assemblies under test. Click-Out adapters are offered in a variety of connector models including duplex MDC, SN, LC as well as MPO, SYSTIMAX MTP and MMC.



### Standard version includes

- FasTesT multi-fiber testing
- Native MPO-12 fixed port
- Loss measurement
- Length measurement
- Polarity validation
- Visual fault locator

### PRO version also includes

- FasTesT duplex testing
- Click-Out adapter port
- 12 and 24 fiber variants

	STANDARD	PRO-12	PRO-24
Native duplex testing	✗	✓	✓
Native multi-fiber testing	12F	8/12F	8/12/16/24F
Click-Out adapter port	✗	✓	✓
1-second loss, length and polarity validation	✓	✓	✓
Visual fault locator (VFL)	✓	✓	✓
Singlemode	✓	✓	✓
Multimode	✓	✓	Coming soon



### The fastest

Measure loss, length, and polarity on duplex and multi-fiber links at 2 wavelengths in just 1 second.



### Multi-connector compatibility

Switch within seconds between duplex and multi-fiber testing with patented Click-Out connectors, compatible with duplex MDC, SN, LC as well as MPO, SYSTIMAX MTP and MMC.



### First-time-right polarity

The industry's only tester capable of detecting duplex and multi-fiber polarity issues hidden in trunk cabling, ensuring fibers are correctly connected before the network goes live.



### Standards compliance

EXFO's Click-Out connectors enable one-cord referencing for duplex and multi-fiber cabling, eliminating adapter cords to match pinned and unpinned gender types ensuring compliance with TIA, ISO, and IEC standards.



### Hybrid contactless connector

The PXM power meter's hybrid contactless connector supports APC and UPC connectors for multimode and singlemode testing, with a large-core detector for precise, low-uncertainty measurements.



### Compliance and business intelligence

Leverage EXFO Exchange cloud capabilities for job management, real-time visibility and reporting to make informed decisions and accelerate project close-outs with confidence.

## FastReporter Reporting

Measurements made by the PXM power meter when measuring either power or loss can be processed in FastReporter post-processing PC software to generate reports.



### Long battery life

The PXM and LXM are powered by lithium-ion rechargeable batteries that can support 8 hours of continuous use.



### Field-replaceable batteries

The battery is field-replaceable, so there's no need to send it back to the factory when the battery reaches the end of its lifecycle (counted in years).



### 4-inch color touchscreen

The PXM and LXM feature high-quality color touchscreens designed to be visible in full sun or dark areas, from any angle.



### 3-year calibration

Cut costs related to factory returns and downtime.



### Field-replaceable Click-Out adapters

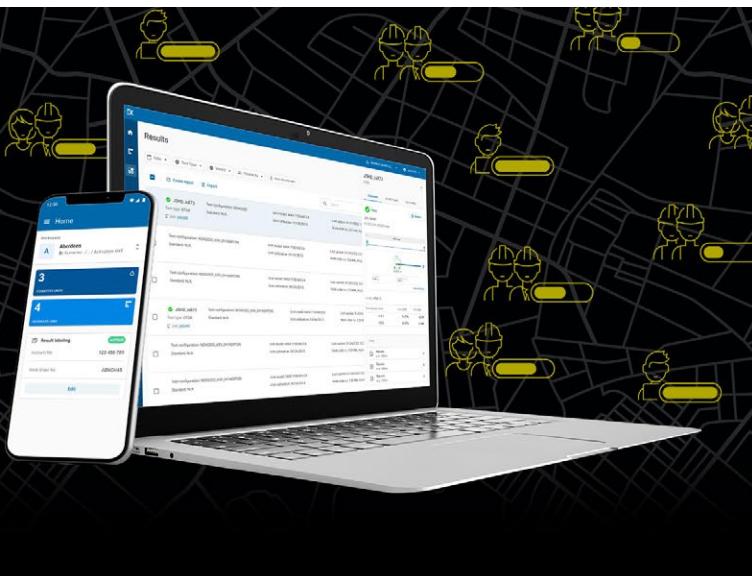
Patented, field-replaceable Click-Out adapter allows replacing worn out connectors when and where needed.



## 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.

 Create an account

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).

 GET IT ON Google Play  Download on the App Store

For MaxTester and FTB users, install the native app.

 Access 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.




Get started >



## SPECIFICATIONS

### PXM POWER METER SPECIFICATIONS<sup>c</sup>

Optical connector	Standard: Contactless MPO-12, male (pinned), supporting both APC and UPC. Connector with protective shutter. P12/P24 models: Click-Out adapter interface (pinned & unpinned).
Detector type	InGaAs
Power measurement range (dBm)	5 to -45
Power uncertainty (dB) <sup>a</sup>	±0.35
Linearity (dB) <sup>b</sup>	±0.1
Display resolution (dB)	0.01
Wavelength measurement range (nm)	850 to 1550
Calibrated wavelengths (nm)	850, 1300, 1310, 1550
Tone detection	270 Hz, 330 Hz, 1 kHz, 2 kHz
Auto-wavelength recognition and switching <sup>c</sup>	Yes
Length measurement	Up to 25 km depending on conditions with singlemode and 1 km with multimode
Warm up time (s)	0
Storage capacity	10,000 measurements at two wavelengths
Warranty (year)	1
Calibration interval (years)	3

### LXM LIGHT SOURCE SPECIFICATIONS<sup>d</sup>

	LXM-SM1 (singlemode)	LXM-MM1 (multimode)
Optical connector	Standard: APC MPO-12 male (pinned). Connector with protective shutter. P12/P24 models: Click-Out adapter interface.	Standard: UPC MPO-12 male (pinned). Connector with protective shutter. P12/P24 models: Click-Out adapter interface.
Emitter type	Laser	LED
Wavelength (nm) <sup>e</sup>	1310 ± 20 1550 ± 20	850 ± 25 1300 ± 20
Output power (dBm)	≥ -13/ ≥ -13	≥ -33/ ≥ -33
Stability (8 h) (dB) <sup>f</sup>	±0.1	±0.1
Warmup time (minutes)	15	15
Tone generation	270 Hz, 330 Hz, 1 kHz, 2 kHz	270 Hz, 330 Hz, 1 kHz, 2 kHz
Warranty (year)	1	1
Calibration interval (years)	3	3

### IN-LINE VFL SPECIFICATIONS (included on each LXM light source)<sup>g</sup>

Laser type (nm) <sup>e</sup>	635 ± 10
Modulation	CW, 1 Hz, 4 Hz
Typical power output (mW)	≤ 0.4
Laser safety	IEC 60825-1: Class 1

### LASER SAFETY



IEC 60825-1: Class 1

- a. For calibrated wavelengths.
- b. For the range -5 dBm to -40 dBm.
- c. When used with an LXM MPO light source in FasTesT mode.
- d. At 23 °C ± 2 °C.
- e. Typical.
- f. After a 15-minute warm-up.
- g. VFL is only on certain channels, not all 12.

## GENERAL SPECIFICATIONS

Display	4-in touchscreen	
Display type	Color display with capacitive touchscreen	
Size (H × W × D)	171 mm × 93 mm × 48 mm (6 3/4 in × 3 11/16 in × 1 7/8 in)	
Weight (with battery)	0.5 kg (1 lb)	
Interfaces	Bluetooth® 5.1 with Bluetooth Low Energy (BLE)	
Data management	EXFO Exchange, FastReporter or USB connection	
Test speed	Loss and polarity measurement for MPO-12 cable at 2 wavelengths in 1 second	
Temperature	Operating Storage	-10 °C to 45 °C (14 °F to 113 °F) -40 °C to 60 °C (-40 °F to 140 °F)



GP-3151



GP-10-061



GP-151



GP-153



GP-2293



GP-3257



GP-3157



GP-3198



GP-3199

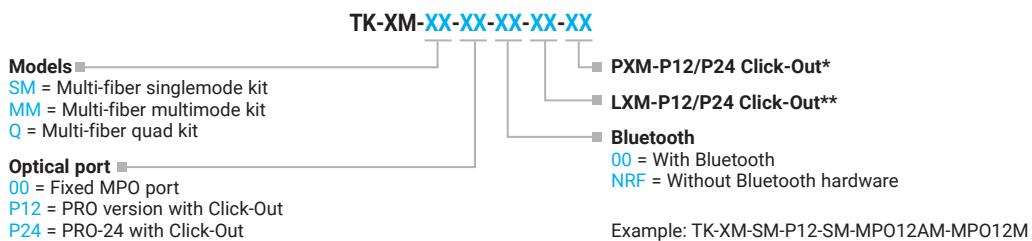
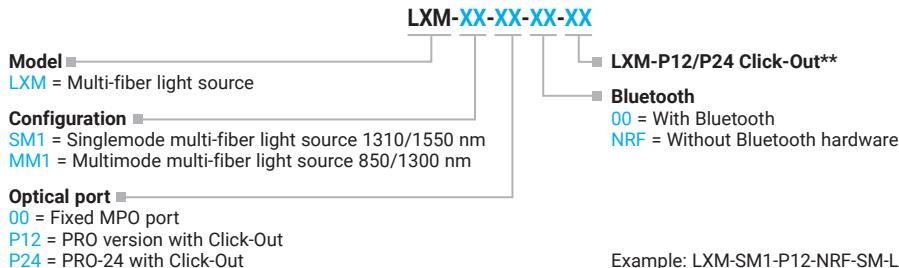
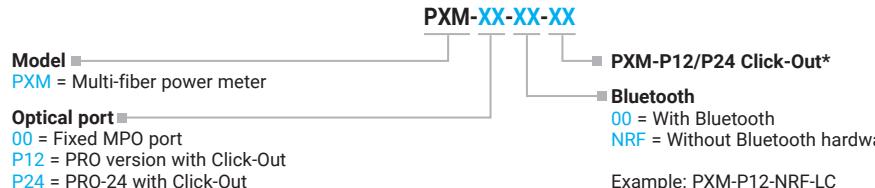


GP-3150

## ACCESSORIES

Carrying pouches and cases	<a href="#">GP-3151</a>	Soft pouch
	<a href="#">GP-10-061</a>	Medium soft carrying case • Can contain a pair of PXM and LXM with related accessories and test cords
Cleaning supplies	<a href="#">GP-151</a>	IBC™ brand cleaner, 1.25 mm ferule
	<a href="#">GP-153</a>	IBC™ brand cleaner, MPO
	GP-165	One-click smart cleaner, CS
	GP-168	One-click smart cleaner, SN
	GP-169	IBC™ brand cleaner, MMC-12 or MMC-24
	GP-170	IBC™ brand cleaner, MMC-16
	GP-3272	IBC™ brand cleaner, MDC
	<a href="#">GP-2293</a>	Electro-wash MX pen
Test cords	MPO-12-SM-TJ-KIT1	Singlemode MPO-12 test jumper kit
	MPO-24-SM-TJ-KIT1	Singlemode MPO-24 test jumper kit
	MPO-12-MM-TJ-KIT1	Multimode MPO-12 test jumper kit
	MPO-24-MM-TJ-KIT1	Multimode MPO-24 test jumper kit
	MDCU-SM-TJ-KIT	Singlemode MDC/UPC duplex test jumper kit
	SNU-SM-TJ-KIT	Singlemode SN/UPC duplex test jumper kit
	LCU-SM-TJ-KIT	Singlemode LC/UPC duplex test jumper kit
	LCA-SM-TJ-KIT	Singlemode LC/APC duplex test jumper kit
	LCU-MM-TJ-KIT	Multimode LC/UPC duplex test jumper kit
	<a href="#">GP-3157</a>	Wrist strap
Data transfer cable	<a href="#">GP-3257</a>	USB-A to USB-C cable
Power adapters	<a href="#">GP-3199</a>	USB AC adapter
	<a href="#">GP-3198</a>	USB-C to USB-C cable
Battery	<a href="#">GP-3150</a>	Battery

## ORDERING INFORMATION

**\*PXM-P12/P24 Click-Out****Native 24 fibers**

APXM-MPO24AF = MPO-24 female (unpinned)  
APXM-MPO24UM = MPO-24 male (pinned)  
APXM-MPO24UF = MPO-24 female (unpinned)  
APXM-MMC24M = MMC-24 male (pinned)  
APXM-MMC24F = MMC-24 female (unpinned)

**Native 16 fibers**

APXM-MPO16AM = MPO-16 male (pinned)  
APXM-MPO16AF = MPO-16 female (unpinned)  
APXM-MPO16UM = MPO-16 male (pinned)  
APXM-MPO16UF = MPO-16 female (unpinned)  
APXM-MMC16M = MMC-16 male (pinned)  
APXM-MMC16F = MMC-16 female (unpinned)

**Native 12 fibers**

MPO12M = MPO-12 male (pinned)  
MPO12F = MPO-12 female (unpinned)  
MPO12FI = MPO-12 female inverted (unpinned)

**Native duplex**

LC = Duplex LC  
MDC = Duplex MDC  
SN = Duplex SN

**\*\*LXM-P12/P24 Click-Out****Native 24 fibers**

ALXM-MPO24AM = MPO-24 male (pinned)  
ALXM-MMC24AM = MMC-24 male (pinned)

**Native 16 fibers**

ALXM-MPO16AM = MPO-16 male (pinned)  
ALXM-MMC16AM = MMC-16 male (pinned)

**Native 12 fibers**

MM-MPO12UM = MPO-12 UPC male (pinned)  
SM-MPO12AM = MPO-12 APC male (pinned)

**Native duplex**

MM-LCU = Duplex LC/UPC  
SM-LCA = Duplex LC/APC  
SM-LCU = Duplex LC/UPC

## P12 MODEL CLICK-OUT™ ADAPTERS

LXM-SM1-P12 adapters	ALXM12-SM-LCA	LC/APC duplex, singlemode
	ALXM12-SM-LCU	LC/UPC duplex, singlemode
	ALXM12-SM-MPO12AM	MPO-12 APC male (pinned), singlemode
LXM-MM1-P12 adapters	ALXM12-MM-LCU	LC/UPC duplex, multimode
	ALXM12-MM-MPO12UM	MPO-12 UPC male (pinned), multimode
PXM-P12 adapters	APXM12-LC	LC duplex, singlemode and multimode
	APXM12-MPO12M	MPO-12 male (pinned), singlemode and multimode
	APXM12-MPO12F	MPO-12 female (unpinned), singlemode and multimode
	APXM12-SN	SN duplex, singlemode and multimode
	APXM12-MDC	MDC duplex, singlemode and multimode
	APXM12-MPO12FI	MPO-12 female inverted (unpinned), singlemode and multimode

## P24 MODEL CLICK-OUT™ ADAPTERS

LXM-SM1-P24 adapters	ALXM12-SM-LCA	LC/APC duplex, singlemode
	ALXM12-SM-LCU	LC/UPC duplex, singlemode
	ALXM12-SM-MPO12AM	MPO-12 APC male (pinned), singlemode
	ALXM24-SM-MPO16AM	MPO-16 APC male (pinned), singlemode
	ALXM24-SM-MMC16AM	MMC-16 APC male (pinned), singlemode
	ALXM24-SM-MPO24AM	MPO-24 APC male (pinned), singlemode
	ALXM24-SM-MMC24AM	MMC-24 APC male (pinned), singlemode
LXM-MM1-P24 adapters	ALXM12-MM-LCU	LC/UPC duplex, multimode
	ALXM12-MM-MPO12UM	MPO-12 UPC male (pinned), multimode
	ALXM24-MM-MPO16AM	MPO-16 UPC male (pinned), multimode
	ALXM24-MM-MMC16AM	MMC-16 APC male (pinned), multimode
	ALXM24-MM-MPO24AM	MPO-24 UPC male (pinned), multimode
	ALXM24-MM-MMC24AM	MMC-24 APC male (pinned), multimode
PXM-P24 adapters	APXM12-LC	LC duplex, singlemode and multimode
	APXM12-SN	SN duplex, singlemode and multimode
	APXM12-MDC	MDC duplex, singlemode and multimode
	APXM12-MPO12M	MPO-12 male (pinned), singlemode and multimode
	APXM12-MPO12F	MPO-12 female (unpinned), singlemode and multimode
	APXM12-MPO12FI	MPO-12 female inverted (unpinned), singlemode and multimode
	APXM-MPO16AM	MPO-16 male (pinned), singlemode and multimode
	APXM-MPO16AF	MPO-16 female (unpinned), singlemode and multimode
	APXM-MPO16UM	MPO-16 male (pinned), singlemode and multimode
	APXM-MPO16UF	MPO-16 female (unpinned), singlemode and multimode
	APXM-MMC16M	MMC-16 male (pinned), singlemode and multimode
	APXM-MMC16F	MMC-16 female (unpinned), singlemode and multimode
	APXM-MPO24AF	MPO-24 female (unpinned), singlemode and multimode
	APXM-MPO24UM	MPO-24 male (pinned), singlemode and multimode
	APXM-MPO24UF	MPO-24 female (unpinned), singlemode and multimode
	APXM-MMC24M	MMC-24 male (pinned), singlemode and multimode
	APXM-MMC24F	MMC-24 female (unpinned), singlemode and multimode

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