Data center test solutions
Data center infrastructure validation

- Fiber inspection
- Fiber certification
- MPO fiber certification
- Fiber characterization
- Link verification
- Fiber tracing
- Handheld power meter
- Transceiver validation
- Cable validation
- Traffic generation
- Coherent link validation
- Data center test solutions
Damaged/dirty connectors

Inspect any type of fiber inside the data center, including single- or multi-mode and single- or multi-fiber.

Fastest LC and MPO connectors inspection with the same tool.

FIP-500 is 100% automated fiber inspection scope with quick connect mechanism for easy tip swap and zero button operation.

View of all multifiber and LC duplex connectors in one shot with pass/fail diagnostics visible from any angle.
Tier-1 duplex fiber certification

Certify any enterprise data center network as per international standards (TIA-568, ISO 11801)

Leading FasTest™ performance certifies two fibers at two wavelengths in 2.6 seconds

Onboard assistant and diagnosis for elimination of reference errors and negative loss

Built-in Encircled-Flux compliance as per ANSI/TIA and ISO/IEC

3-year warranty and calibration interval

MaxTester 940

2 fibers
2 wavelengths
2.6 seconds
Tier-1 MPO fiber certification

Leading FasTest™ performance: test MPO-12 cables at 2 wavelengths in just 1 second

- Comprehensive pass/fail results on one page displayed on a 4-inch color touchscreen
- Insertion loss measurement
- Polarity type validation
- Native MPO-12 connector on devices
- In-line visual fault locator (VFL) for fiber tracing
Fiber characterization

Tier-2 certification

Certify any enterprise data center network as per international standards (TIA-568, ISO 11801)

Validate the fiber to ensure it meets critical performance attributes with automated pass/fail thresholds for singlemode and multimode cables

iOLM dynamically locates and identifies all faults with maximum resolution

Test, in automated sequence, the individual fibers of an MPO (singlemode) connectorized cable, inside or outside the data center
Broken or faulty fibers

Faulty fibers are among the most serious issues in structured cabling networks.

Checks the power level.

Displays fiber length, loss and optical return loss (ORL) in under 3 seconds.

EXFO’s Optical Explorer validates link quality in seconds, assigning a 1-5 star rating according to industry best practices.

On-the-spot detection and location of common causes of failures on singlemode fibers.
Fiber tracing

A triple test tool – Live fiber identifier, live fiber detector, dark fiber identifier – for truly efficient fiber management

Pinpoints a specific live fiber using EXFO’s FiberFinder™ functionality

Induces minimal loss: ≤ 1 dB

Test cycle under 6 seconds
Handheld power meter

User-friendly: Compact, color touchscreen and intuitive interface

Robust and rugged: IP54 design for dust and water protection

Connect to smart app via Bluetooth for easy data reporting

Data storage

3-year warranty and calibration interval
Defective transceivers

Transceivers are critical to data center operations.

Faulty transceivers are among the most common and serious issues in data center networks.

Most technicians do not have the tools to identify defective transceivers.

EXFO’s iOptics enables data center technicians to quickly validate transceivers on-site and meet aggressive deployment schedules. iOptics generates a test report that technicians can use to show the transceiver vendor which elements are failing.
Defective AOC cables

Active optical cables (AOCs) are being widely deployed in high-performance computing and data center applications.

Identifying faulty cables inside the data center is one of the most difficult tasks data center technicians face.

EXFO's iOptics intelligent pluggable optics test application offers a complete, powerful and easy-to-use tool for validating AOC cables. iOptics generates a test report that technicians can use to show the transceiver vendor which elements are failing.
Data performance challenges

Data transmission between servers, switches and users is the most important activity in any data center.

Validating end-to-end signal integrity, zero packet loss and minimal latency during deployment and troubleshooting is critical for data center managers.

EXFO’s BERT, traffic generation, RFC 2544 and EtherSAM Y.1564 applications help data center technicians validate on-site data transmission performance, complete their fiber installations and quickly troubleshoot issues.
Meet all specifications

Coherent links between data center sites can range from 120 km to over 500 km using different standards such as 400ZR or OpenZR+

Coherent links must be validated to make sure that they are stable, meeting bit error rate specifications. Furthermore, coherent transceivers offer multiple optical metrics that should be assessed as per the network planning requirements.

EXFO’s FTBx-88480 allows validation of coherent transceivers and links, including the configuration of frequency and output power. Technicians can assess the optical metrics and make sure that all elements meet the specifications.
Data center test solutions

FTBx-88260 multiservice tester
Ethernet testing from 10M up to 100G

Open transceiver system (OTS):
supports current and future transceiver technologies, including coherent ZR/ZR+ optics

iOptics: intelligent transceiver and AOC validation from 10M up to 100G

MaxTester 940
Tier-1 duplex fiber certification of two fibers at two wavelengths in 2.6 seconds

Optical Power Expert (PX1)
Power meter with Bluetooth® connectivity and a wide touchscreen

FTBx-88480 compact dual-port 400G field tester
Supports different rates, interfaces and transceiver types—all with a single platform. It also features the OTS and iOptics.

FIP-500
100% automated fiber inspection scope

FTBx-700 Series OTDR with iOLM
Automated, expert-level singlemode and multimode fiber testing, removing complexity from the OTDR

PXM/LXM MPO OLTS
Tier-1 MPO fiber certification

Optical Explorer (OX1)
Ultrafast link verification and embedded fault tracking

LFD/TG-300B FiberFinder
Live fiber identifier/tone generator

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