

Fiber deep and Remote PHY test solutions

Become an optical test expert
with EXFO's solutions portfolio

Smarter
network
in sight.™

EXFO

“ We bring you
the essential
tools to power
through your
transformation. ”

Fiber deep and Remote PHY test solutions

Multiple-system operators (MSOs) are transforming their networks to support evolving DOCSIS standards such as DOCSIS 4.0.

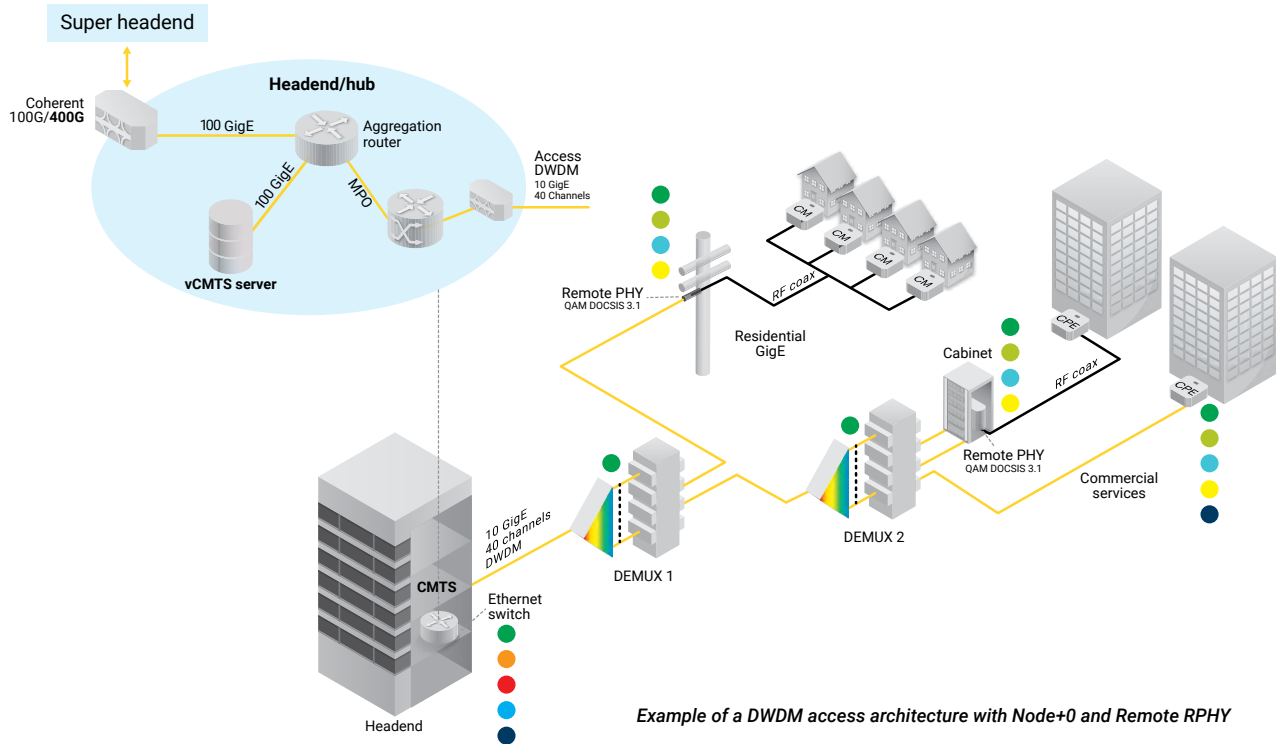
The current use of distributed access architecture (DAA) technologies is changing the face of traditional deployments. Infrastructure upgrades towards fiber deep (also called Node+0) are paving the path for RPHY and ultimately FTTH.

Discover our suite of industry-leading test solutions from the headend to the node to measure multiple optical wavelengths and validate Ethernet services, helping you deliver optimal quality of experience to subscribers.

About EXFO

EXFO develops smarter test, monitoring and analytics solutions for fixed and mobile network operators, webscale companies and equipment manufacturers in the global communications industry. Our customers count on our unique blend of equipment, software and services to accelerate digital transformations related to fiber, 4G/LTE and 5G deployments.

Empowering technicians from headend to node



Essential testing tools

FIP-500
(Fiber inspection scope)



● Connector inspection

Optical Explorer
(Optical fiber multimeter)



● Last mile troubleshooting

MAX-5205
(Optical channel checker)



● DWDM activation

Optical Wave Expert
(OTDR + Optical channel checker)



● DWDM troubleshooting

FTBx-740 series



● xWDM characterization

FTBx-5235
(Optical spectrum analyzer)



● xWDM spectral validation

FTB-5700



● Dispersion testing

FTBx-8880



● Ethernet service validation

Address the biggest network problem with fiber inspection tools

Fiber inspection with next-level automation

With their unique automatic focus-adjustment system, EXFO's fiber inspection scopes automate each operation in the test sequence, transforming the critical inspection step into a quick and simple one-step process for all technicians, regardless of experience.



FIP-400B Series

Key features

- Fast and easy one-step inspection process
- WiFi connectivity (no wires or adaptors)
- Pass/Fail analysis based on industry standards (IEC/IPC)
- Full-day onboard rechargeable battery
- Screen-free operation with pass/fail LED
- Easy swap from single-fiber to MPO/MTP connectors

FIP-500

Key features and benefits

- Best-in-class optical performance for accurate and repeatable results
- Zero-button inspection: 100% automated from insertion to data saving
- Fastest inspection in the industry
- Quick-connect design: quarter-turn click for switching between any tips

Use	Series	Network test point
Fiber inspection	FIP-400B	Every optical connection point
SF/MF connector inspection	FIP-500	Single-fiber (SF) and multi-fiber (MF) connectors

The FIP-435B is also available as a kit, which includes:



Use	Series	Network test point
Fiber inspection Power checker Visual fault locator	TK-FIP-MPCx-MSO kit (Includes: FIP-435B, MPC-100X, FLS-140, belt holster)	Every optical connection point

Quickly find breaks and automate plant characterization

Last-mile validation and troubleshooting

This new breed of testers, Optical Fiber Multimeter (OFM), will verify optical links in seconds and automatically explores further when potential issues are suspected.



Optical Explorer

Key features and benefits

Displays fiber link KPIs (length, loss, ORL and power) in under 3 seconds

- On-the-spot detection and location of common causes of failures using EXFO's patent-pending Fault Explorer
- Intelligent device:
 - No settings required
 - Contextual wavelength auto-selection
 - Built-in expertise to interpret link KPIs with patent-pending EXFO Advisor (5-star ranking system)
 - Diagnostics with suggested corrective action
- Intuitive and easy to use

Use	Series	Network test point
Link validation & troubleshooting	Optical Explorer	Node, CPE

Quickly find breaks and automate plant characterization

xWDM OTDR link validation to ensure healthy networks

This tunable WDM OTDR provides complete end-to-end link characterization and troubleshooting for testing through MUX/DEMUX. The xWDM OTDR is the tool of choice for turn-up or to quickly pinpoint issues.



FTB-740C-xWDM OTDR Series

Key features

- C-band ITU grid channel 17–62, 100 GHz/ 50 GHz, to test through DWDM MUX/DEMUX
- 18 CWDM channels covered in one OTDR port, scalable to your deployments
- In-service testing of active C/DWDM networks
- iOLM technology enabled to support one button push, multi-pulsing and high-resolution plant characterization
- CWDM and DWDM combo available
- Channel centering auto-correction to avoid leakage/BER to other active channels
- Additional tunable filtering input to support active live testing in high-capacity networks
- PON-optimized performances to support multi-technology and future upgrades to GPON/FTTH
- Tunable source capability to validate muxes/splicing during the construction phase

Use	Series	Network test point
DWDM C-band tunable OTDR	FTB/FTBx-740C-DWC	Field node
CWDM 18-channel OTDR	FTB/FTBx-740C-CW10/CW18	Headend, CPE
xWDM C/DWDM tunable OTDR	TK-1-740C-xWDM	Headend, CPE

Quickly find breaks and automate plant characterization

DWDM channel checker and OTDR on a single port

The Optical Wave Expert integrates channel power validation and reflectometry characterization on a single port. This means that technicians can automatically identify faulty channels and follow through with fault location by leveraging intelligent OTDR capabilities.



Optical Wave Expert

Key features

- Integrated DWDM channel checker and OTDR on a single port (patent-pending)
- Intelligent channel power level measurements
- Compact and portable form factor
- iOLM-ready: one-touch multiple acquisitions, with clear MUX/DEMUX characterization
- C-band ITU-T G.692 DWDM grid channels (12-62)
- Bar graph and table view on wide touchscreen display
- In-channel and testing of active networks
- Intuitive GUI and workflow

Use	Series	Network test point
DWDM C-band tunable OTDR + OCC	Optical Wave Expert	Node

Validate channel wavelengths and power levels

Optical spectrum testing designed for the field

The compact, entry-level optical spectrum analyzer (OSA) and DWDM channel checker are ideal for a variety of field applications, including network commissioning, validation and troubleshooting.



FTB-5235: OSA

Key features

- Covers CWDM and DWDM wavelengths
- Features auto-discovery of active channels
- Accepts low power channel discovery via a non-intrusive monitor port on the MUX
- Measures OSNR for systems with amplification
- WDM and drift mode

MAX-5205: DWDM channel checker

Key features and benefits

- Covers C-BAND ITU-T G.692 DWDM grid channels (12-62) and PON wavelengths
- Bar graph and table view on wide touchscreen display
- Compact and portable form factor

Use	Series	Network test point
C/DWDM optical spectrum validation	FTB-5235	Headend
DWDM optical spectrum validation	MAX-5205	Field node

A new standard in Ethernet testing

Simple and affordable Ethernet validation

Comprehensive yet simple test suite to easily validate and troubleshoot Ethernet network performance.



FTBx-8880: 10GE Ethernet service validation

Key features

- Lightweight and portable solution
- Custom-designed platform with ultra-bright 8-inch multitouch screen
- Built-in connectivity—choose between Gigabit interface, WiFi, Bluetooth
- Ethernet validation up to 10G
- Y.1564, RFC 2544, traffic generation/monitoring
- Agnostic smart loopback tool
- Full suite of testing including BERT, RFC 6349, Link OAM, layer 2 transparency, tunable SPF+ and others

Use	Series	Network test point
Ethernet service validation up to 10G	FTBx-8880	Headend, field node

Avoid errors in transmission due to dispersion issues

Ideal for Remote PHY deployments

This user-friendly dispersion tester will help you nip dispersion issues in the bud. Quickly validate that chromatic dispersion (CD) and polarization mode dispersion (PMD) are within parameters.



FTB-5700 CD/PMD analyzer

Key features

- CD/PMD measurements on a single instrument
- Maximized network uptime
- The industry's only single-ended dispersion tester, resulting in reduced truck rolls and over 50% OPEX savings compared with dual-ended instruments
- One-button operation for first-time-right results
- Made by the No. 1 vendor* for CD and PMD testing

* Frost & Sullivan, fiber optic test equipment (FOTE) study

Use	Series	Network test point
Dispersion testing	FTB-5700	Headend or field node

Sales and customer service

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