

# Test solutions for submarine networks

Ensuring cost-effective  
100G/200G/400G/800G  
submarine transmissions

Smarter  
network  
in sight.

**EXFO**

# Ensuring cost-effective 100G/200G/400G/800G submarine transmissions

## Commissioning and turn-up



### **FTBx-88810 Series—1G-800G testing, including 800ZR**

Full-rate coverage from 1G to 800G—supporting Ethernet, OTN, Fibre Channel and coherent optics including 800ZR. Built for the Coherent Future.



### **FTBx-88480—1G-400G testing, built to go 800G**

Compact, multiservice dual-port testing (1G-400G, 400ZR and 400ZR+). Includes EXFO's modular Open Transceiver System (OTS). Software upgradeable to 800G.



### **FTBx-88260—100G multiservice testing**

Next-generation advanced multiservice testing for 1G-100G (including 25G/50G), plus ability to handle multiple transceiver types, including 100ZR coherent technology.



### **FTBx-8870/8880—10G multiservice testing**

Versatile 10G multiservice test modules for lab and field applications.



### **FTBx-5245/5255—optical spectrum analyzers (OSAs)**

Highly accurate, easy-to-use OSAs for current and next-generation networks.



FTBx-88260 featuring EXFO's OTS

### **Open transceiver system (OTS)**

The OTS is an evolutionary design enabling any transceiver (now or future) to fit into an EXFO test solution. Inserts to test specific transceiver types eliminate the need to replace entire testing modules and can be interchanged directly in the field. Available on the FTBx-88480 and FTBx-88260 test modules.

# Fiber characterization and troubleshooting for submarine networks



## FIP-500—fiber inspection scope

Fastest inspection in the industry for both single-fiber and multi-fiber connectors, with the most reliable results. Self-contained, fully automated tool for zero-button testing.



## FTBx-750C—metro/longhaul OTDR

High dynamic range combined with high resolution for precise fiber characterization.



## FTBx-570—single-ended CD/PMD analyzer

Industry's only solution for fast single-ended CD/PMD testing for full fiber characterization.



## Remote fiber testing and monitoring

Remotely operated OTDR at the landing stations for qualification and proactive monitoring of immersed optical cables up 200 km from shore. Powered by iOLM's patented dynamic multipulse technology.

## Total link characterization

is an important step that provides a view of the entire link, including all interconnection points, fusion splices and fiber sections. Link characterization, which includes CD, PMD and OTDR tests, also serves as a future reference when performing commissioning and troubleshooting on the same link.

The critical weakness of undersea cables is their vulnerability to damage caused by fishing and vessel anchoring. Constant surveillance of these optical fiber cables requires an **OTDR monitoring solution**. These easy-to-manage units cost-effectively monitor coastal route topologies (festoon style), and also keep you up to date on the status of the fibers and cables.

They also use various messaging channels to alert you of any potential impairment to your most valuable asset.

# 100G/200G/400G/800G submarine network deployments

All-in-one 100G/200G/400G/800G commissioning,  
turn-up and troubleshooting from a single test platform

## Scalable, versatile, high-density platform



FTB-4 Pro  
platform

### + Flexible, reliable best-in-class transport testing



FTBx-88480—400G multiservice testing



With iDoptics, validate a comprehensive range of pluggable transceivers and interface rates, including coherent optics (OSFP, QSFP-DD), QSFP28, QSFP+, SFP28, SFP+, SFP, AOC QSFP28 cables, DAC QSFP-DD, Bidi SFP+ and SFP.

### + Agile, optical spectrum analyzer

FTBx-5245/5255  
highly accurate OSAs



## LEARN MORE

**Submarine network case study:**  
Hawaiki ushers in a new era of digital communications in the Pacific

**Blog post:**  
Testing submarine cables: why it's a big deal

More about  
our test offering for  
submarine networks



Need advice or information?  
Reach out to our test experts or browse  
insightful content on **EXFO.com**

