UNIVERSAL TEST SYSTEM  FTB-400
THE ULTIMATE PLATFORM FOR NETWORK EXPERTS

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Telecommunications Test and Measurement
PERPETUAL INNOVATION:
THE MARK OF A LEADER

Before 1996, assessing the performance of a network involved carrying many instruments and devoting considerable time integrating test data from various instruments in order to obtain a complete profile of the network.

Then came EXFO’s modular approach to network T&M—an all-in-one platform hosting a combination of plug-and-play modules and offering highly efficient multitasking functionalities available through a common interface.

THE UNIVERSAL TEST SYSTEM: BUILD IT AS YOU GROW

EXFO has now taken this forward-looking concept to new heights. With multiple configurations designed to meet network-specific requirements and the possibility to add test modules as the need arises, the Universal Test System has gained worldwide market acceptance, as over 15,000 platforms have been deployed by the industry’s leading network service providers.

This continued popularity is a testament to the Universal Test System’s key advantages:

- **Future-proof scalability.** Enjoy the possibility to add new test modules as requirements evolve, protecting your platform investment.

- **Built-in multitasking** through wide-ranging modules simultaneously housed and operated in the platform.

- **Flexible PC-based architecture.** Easily save data and print on-the-spot reports.

FTB-400 (2-slot version)

The FTB-400 Universal Test System enables in-depth characterization of today’s telecom networks—the choice of today’s network experts.

FTB-400 (8-slot version)

2005 Frost & Sullivan Growth Strategy Leadership Award within the fiber-optic test and measurement market
THE HIGH-PERFORMANCE TOOL
FOR TODAY’S NETWORK EXPERTS

When it comes to **fully characterizing their telecom links**, network professionals look for the efficiency and bottom-line benefits of an **all-in-one solution** such as the FTB-400 Universal Test System:

- Advanced, in-depth test features for A-to-Z network characterization and expert troubleshooting
- Unparalleled user-friendliness, thanks to a common interface for all modules

**PHYSICAL/OPTICAL AND TRANSPORT/DATACOM TEST MODULES—THE MOST COMPREHENSIVE LINE ON THE MARKET**

EXFO’s FTB-400 Universal Test System houses up to eight single-slot modules from an industry-leading selection of optical and protocol test solutions:

- **Physical/optical**—including OTDRs, loss testers, optical spectrum analyzers, PMD and chromatic dispersion analyzers, switches, sources and power meters
- **Transport/datacom**—SONET/SDH and Next-Gen SONET/SDH analyzers, Gigabit Ethernet and 10 Gigabit Ethernet analyzers, as well as Fibre Channel (SAN) test modules

**ADAPTABLE AND RELIABLE: PROTECTING YOUR INVESTMENT**

With its multiple back-receptacle options—two, four, seven or eight module slots—the FTB-400 lets you build your test application setup, using any EXFO FTB module, including legacy models. Designed for field use, it can also withstand the harshest test conditions.

- 2-, 4-, 7- or 8-slot back receptacle
- Backward compatibility with legacy FTB modules, for maximum return on your investment
- First-rate reliability and go-anywhere ruggedness

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ONE PLATFORM. THE WIDEST RANGE OF MODULES.
COUNTLESS TEST POSSIBILITIES.

PHYSICAL TESTING

FTB-7000B/C/D OTDR Series
Accurate detection/analysis—up to 128,000 data points—of fiber splices, connectors, breaks and other events. Various models and wavelengths (including 850 and 1300 nm multimode, as well as 1310, 1410, 1490, 1550 and 1625 nm singlemode).
  - FTB-7000D: optimized for metro, access and FTTH networks; characterizes all events between the CO’s OLT and the premises ONT; 1 m event dead zone, and lightning-fast acquisition
  - FTB-7200D: first-class multimode and singlemode performance (four wavelengths); designed for enterprise and private networks
  - FTB-74234C-B: characterizes fiber in the O, C and L bands, ideal for testing long-haul and metro networks

FTB-5800 Chromatic Dispersion Analyzer
Provides fast, accurate, high-performance testing in the CO and in the field.
  - High accuracy of 1.6 ps/nm
  - Measures CD through amplifiers (EDFAs)

FTB-5500B PMD Analyzer
Accurately measures PMD—even through EDFAs.
  - Dynamic range of more than 50 dB
  - PMD range of 0 to 115 ps
  - Complete tests in 3 seconds

POTDR-1100 DOP Polarization-OTDR
Locates high-PMD fiber spans, enabling operators to replace old fibers when upgrading their systems.
  - Classifies fiber according to PMD level (low, medium, high)
  - Enables network bit-rate upgrades and maximizes the use of deployed fiber

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OPTICAL TESTING

FTB-5230 Optical Spectrum Analyzer
Tests both DWDM and CWDM systems within metro/access links and long-haul networks.
- Characterizes DWDM systems down to 50 GHz
- Wavelength and power-drift measurements

FTB-5240B High-Precision Optical Spectrum Analyzer
FTB-5240 Optical Spectrum Analyzer
High-resolution, high-precision OSAs designed for DWDM and ultra-dense WDM applications.
- Wavelength range: 1250 to 1650 nm
- Internal reference source, for a wavelength accuracy of ± 30 pm (± 15 pm with external calibration)

SOFTWARE

ToolBox Office R/T Pro
Manages test data and generates integrated reports—OTDR, OLTs (loss and ORL), chromatic dispersion and PMD results.
- Benefit from two report types—measurement report and summary report—both presented in Excel format, for easy transfer in Acrobat PDF or to a user-defined test-result database
- Manage and view data with a single interface
- Perform pass/fail threshold analysis

EXpertNPA Network Protocol Analyzer
Enables quick, easy identification and detailed assessment of complex network problems.
- Captures, filters and decodes Ethernet and higher-layer traffic
- Displays traffic stats in a contextual way, for easy network troubleshooting

TRANSPORT/DATACOM TESTING

FTB-81x0 Next-Generation SONET/SDH Analyzer
Combines advanced DSn/PDH, SONET/SDH and Next-Gen SONET/SDH test functions in a single unit.
- DS1/E1 to OC-192/STM-64 interfaces in a single module
- Advanced Ethernet-over-SONET/SDH testing using GFP, VCAT and LCAS

FTB-8510G Packet Blazer 10 Gigabit Ethernet Test Module
Supports 10 Gigabit Ethernet WAN and LAN rates for total network testing.
- LAN and WAN PHY capability in a single module
- Qualifies Ethernet transport networks for transmission of delay-sensitive traffic such as VoIP

FTB-8510 Packet Blazer Ethernet Test Module
All the T&M functionalities to meet service-level agreements with customers.
- Packet-jitter measurement, for Ethernet transport network assessment
- Transparent LAN service (TLS) testing with wire-speed, full-duplex traffic-generation capabilities (up to 1000 Mb/s)

FTB-8520 Packet Blazer SAN Test Module
Tests Fibre Channel services, and performs end-to-end latency testing and buffer-to-buffer credit estimation.
- 1 Gb/s (100 Mb/s) and 2 Gb/s (200 Mb/s) ports for full-line-rate Fibre Channel testing and traffic generation
- BER testing of 100 and 200 Mb/s Fibre Channel circuits

FTB-80x0 SONET/SDH 10 Gb/s Test Module
Full-fledged suite of test functions for turning up DS0/E0 services to OC-192c/STM-64c.
- Support for SONET, SDH, PDH and DSn
- Automatic discovery of signal structure and alarms/errors
MULTITASKING:
TIME IS MONEY

In today’s high-pace environment, the ability to perform several tests simultaneously is a must. Less time spent testing enables you to activate/reactivate your services quicker and better meet customer QoS agreements.

- Test and data post-analysis simultaneously performed on multiple modules
- A single platform for performing quick measurements (e.g., OTDR acquisitions) and long-term tests (e.g., BER)
- Remote control of various network elements or other FTB-400 platforms

MULTIMEDI TAGES

- 12.1-inch color TFT touchscreen resists spills and splashes
- Ethernet/Fast Ethernet (10/100 Mb/s) network card for remote control from a PC or another FTB-400 (optional)
- IrDA port and two USB ports, for faster data transfer
- Up to 1024 MB SDRAM, for quick access to internal memory
- PC Card Type III device (two-slot) support
- Flash memory cards (256 to 1024 MB) (optional)
- Internal 3.5-inch 1.44 MB floppy drive
- Serial and parallel port for printer and other peripherals
- Sound card and speaker, for audible alarms

FOUR BACK-RECEPTACLE OPTIONS

Two-slot version:
Dedicated OTDR, loss and Gigabit Ethernet testing.

Four-slot version:
Full datacom test capabilities (Fibre Channel and Ethernet up to 10 Gigabit), or dedicated OTDR, loss and Ethernet (up to 10 Gigabit) testing.

Seven-slot version:
Scalable, advanced fiber-optic test applications, including DWDM and dispersion analysis.

Eight-slot version:
Complete dispersion characterization (CD, PMD and OTDR) and Next-Gen SONET/SDH analysis.
EXFO’s Test Performance Continuum

Whatever your network testing requirements, EXFO delivers solutions that meet your day-to-day T&M needs.

EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices.

Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.