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Data Sheet

August 14, 2026

EXFO

Exfo FTB-5503 PMD Analyzer Module

The EXFO FTB-5503 PMD Analyzer Module is a plug-in module for the FTB-400 Universal Test Platform. It is designed to accurately characterize polarization mode dispersion (PMD) in optical fibers. This module is essential for ensuring high-speed data transmission in long-haul and high-bitrate optical networks.



MODEL

Exfo FTB-5503

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FTB-5503

LISTING

<https://aumictechlabs.com/products/ftb-5503-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO FTB-5503 PMD Analyzer Module is a plug-in unit for the EXFO FTB-400 Universal Test Platform, engineered to characterize Polarization Mode Dispersion (PMD) in optical fibers at 1550 nm. PMD measurement is critical for maintaining signal integrity and performance in long-haul and high-bit-rate optical networks. Technical Specifications PMD Measurement Performance Measurement Principle: Interferometric method, offering immunity to vibrations and adverse field conditions Analysis Range (Standard): 0.05 ps to 35 ps at 1550 nm Analysis Range (Extended with ER option): 0.05 ps to 200 ps at 1550 nm Calculated values can achieve lower than 0.05 ps; estimated values extend to 200 ps with extended range Dynamic Range: 42 dB (56 dB with M2100 Light Source); reduced when PMD exceeds 5 ps With M2100 Broadband Light Source and high dynamic range option: > 55 dB for spans exceeding 250 km Measuring Time: 15 seconds for PMD < 1.2 ps at 1550 nm Accuracy: $2\sigma = 0.17 \times (\text{PMD}/N) + 0.052$ ps over N measurements at different

polarization states Repeatability: 1 % $\pm$ 0.052 ps without change in measurement conditions
Second-Order PMD: Software calculates second-order PMD delay, coefficient values, and PMD coefficient as a function of link length Auto-Range Function: Automatically scans and selects optimal measurement range for unknown PMD values Operating Environment Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F) Storage Temperature: -20 °C to 50 °C (-4 °F to 122 °F) Relative Humidity: 0 % to 80 % non-condensing Physical Specifications Module Dimensions (HxWxD): 9.6 cm $\times$ 7.6 cm $\times$ 260 cm (3 3/4 in $\times$ 3 in $\times$ 10 1/4 in) Module Weight: 1.96 kg (4.3 lb)
Key Features Single-wavelength operation at 1550 nm Vibration-immune interferometric measurement Second-order PMD calculation and analysis Auto-ranging for rapid, unattended measurement setup Compatibility & Integration Designed for EXFO FTB-400 Universal Test Platform Compatible with EXFO M2100 Broadband Light Source for high dynamic range measurements Compatible with EXFO FLS-110P Optical Source for field measurements

FTB5503 Characteristics / Specifications

PARAMETER	VALUE
Wavelength	1550 nm
PMD Measurement Range Standard	0.1 to 35 ps
Dynamic Range	40 dB
Average Measuring Time Class	10 to 15 seconds
Method	generalized interferometric GINTY
Standard Reference Class	TIA FOTP-124A
EDFA Compatible Testing	yes
Autocorrelation Peak Handling	mathematical subtraction
Zero PMD Measurement	supported class
Platform	FTB-400
Module Type	PMD analyzer
Intended Use	installed link PMD
Source Shape Constraint	any source shape class
Form Factor	FTB plug-in module
Typical Field Use	portable platform based
Interferogram Analysis	yes
Amplified Link Support	yes
Unamplified Link Support	yes

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Wavelength	1550 nm
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Standard Reference Class	TIA FOTP-124A
EDFA Compatible Testing	yes
Autocorrelation Peak Handling	mathematical subtraction
Zero PMD Measurement	supported class
Platform	FTB-400
Module Type	PMD analyzer
Intended Use	installed link PMD
Source Shape Constraint	any source shape class
Form Factor	FTB plug-in module
Typical Field Use	portable platform based
Interferogram Analysis	yes
Amplified Link Support	yes
Unamplified Link Support	yes
Notes	
Numeric values from published EXFO FTB-5503 PMD Analyzer Module specification summaries used by major test-equipment archives. Prefer the module faceplate and the FTB-5503 user/calibration documentation for extended-range options (some literature cites 0.05 to 200 ps extended class) and exact averaging time.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.