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Data Sheet

August 14, 2026

EXFO

Exfo FTB-5500B PMD Analyzer Module

The Exfo FTB-5500B is a Polarization Mode Dispersion (PMD) analyzer module designed for the FTB-500 platform. It delivers fast and accurate PMD characterization in demanding field environments, crucial for ensuring high-speed data transmission quality in optical networks. Featuring advanced measurement algorithms, it provides detailed PMD analysis for network optimization and troubleshooting.



MODEL

Exfo FTB-5500B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FTB-5500B

LISTING

<https://aumictechlabs.com/products/ftb-5500b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO FTB-5500B is a Polarization Mode Dispersion (PMD) analyzer module engineered for the EXFO FTB-500 platform, delivering fast PMD characterization across ultra-long-haul and 40/100 Gbit/s+ optical networks. This module completes PMD measurements in 4.5 seconds for any PMD value down to 0 ps, mitigating bit error rate degradation caused by high PMD in critical transmission links. Technical Specifications Wavelength Range: 1260 nm to 1675 nm (O to U band) PMD Measurement Range: 0 ps to 115 ps Measurement Time: 4.5 seconds Sensitivity: -45 dBm Absolute Uncertainty (strong mode coupling): $\pm (0.020 + 2 \text{ ps})$ Dynamic Range: Over 50 dB Second-Order PMD: Delay and coefficient values derived from measured PMD Dispersion Repeatability: 0.04 ps/nm Zero-Dispersion Wavelength Repeatability: 0.1 nm Fiber Length Capability: 5400 km Dimensions: 96 mm (H) × 76 mm (W) × 260 mm (D) Key Features Michelson

interferometer architecture with broad-spectrum polarized LED source Operates with sources of any spectrum shape through auto- and cross-correlation knowledge Analyzes total link PMD through EDFA-transmitted signals Multiple connector options: FC/APC, FC/UPC, SC/UPC, DIN 47256, HMS-10/A, ST, E-2000 Field-deployable design rated for extended measurement campaigns Typical Applications Long-haul optical link PMD characterization 40 Gbit/s and 100 Gbit/s+ transmission system qualification EDFA chain PMD assessment Ultra-long-haul fiber optic network commissioning and maintenance Compatibility & Integration Designed for integration into the EXFO FTB-500 platform; also compatible with FTB-400 chassis. Pairs with light sources including FLS-110 (field deployable) and FLS-5800 (stationary lab). Commonly deployed alongside the EXFO FTB-5800 CD Analyzer module for comprehensive dispersion analysis.

FTB5500B Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	1260 to 1675 nm (O toUband)
Measurement Range	0 to 115 ps
Sensitivity TypicalCBand	-45 dBm
Measuring Time	4.5 s for any PMD value
Absolute Uncertainty Strong Mode Coupling	+/- (0.020 + 2% of PMD) ps
EDFA Measurement	yes (above 120 EDFAs)
Operating Temperature	0 C to 40 C
Storage Temperature	-40 C to 70 C
Relative Humidity	0% to 93% noncondensing
Module Size HxWxD	9.6 × 7.6 × 26.0 cm
Module Weight	1.5 kg (3.4 lb)
Platform Compatibility	FTB-500
Test Method	General Interferometric Technique (GINTY)
Second Order PMD	software provides second-order delay and coefficient
Standards Compliance	TIA-FOTP-124A
Traceability	NIST traceable
Second Order PMD Output	delay and coefficient values
Ultra Longhaul EDFA Cascades Class	tested through hundreds of amplifiers with source pairing
Measuring Technique	interferometric GINTY
Platform Host	FTB-500
Source Pairing Examples	FLS-110 polarized LED or FLS-5834A CD/PMD source
NIST Traceable	yes
Standards	TIA-FOTP-124A compliant
Humidity	0% to 93% noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	0% to 93% noncondensing
Relative Humidity	0% to 93% noncondensing
Module Size HxWxD	9.6 × 7.6 × 26.0 cm
Module Weight	1.5 kg (3.4 lb)
Platform Compatibility	FTB-500
Test Method	General Interferometric Technique (GINTY)
Second Order PMD	software provides second-order delay and coefficient
Standards Compliance	TIA-FOTP-124A
Traceability	NIST traceable
Second Order PMD Output	delay and coefficient values
Ultra Longhaul EDFA Cascades Class	tested through hundreds of amplifiers with source pairing
Measuring Technique	interferometric GINTY
Platform Host	FTB-500
Source Pairing Examples	FLS-110 polarized LED or FLS-5834A CD/PMD source
NIST Traceable	yes
Standards	TIA-FOTP-124A compliant Notes From EXFO FTB-5500B/FTB-5800 specification sheet (FTB-5500B column). Sensitivity is typical for Cband and may improve with averaging; pair with appropriate polarized source such as FLS-110 or FLS-5834A per ordering guide.

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	
Specifications	
PARAMETER	VALUE
Wavelength Range	1260 to 1675 nm (0 toUband)
Measurement Range	0 to 115 ps
Sensitivity TypicalCBand	-45 dBm
Measuring Time	4.5 s for any PMD value
Absolute Uncertainty Strong Mode Coupling	+/- (0.020 + 2% of PMD) ps
EDFA Measurement	yes (above 120 EDFAs)
Dynamic Range With FLS-5800 Typical: 47 dB	
Specifications	
PARAMETER	VALUE
Operating Temperature	0 C to 40 C
Storage Temperature	-40 C to 70 C
Relative Humidity	0% to 93% noncondensing
Module Size HxWxD	9.6 x 7.6 x 26.0 cm
Module Weight	1.5 kg (3.4 lb)
Platform Compatibility	FTB-500
Test Method	General Interferometric Technique (GINTY)
Second Order PMD	software provides second-order delay and coefficient
Standards Compliance	TIA-FOTP-124A
Traceability	NIST traceable
Second Order PMD Output	delay and coefficient values
Ultra Longhaul EDFA Cascades Class	tested through hundreds of amplifiers with source pairing
Measuring Technique	interferometric GINTY
Platform Host	FTB-500
Source Pairing Examples	FLS-110 polarized LED or FLS-5834A CD/PMD source
NIST Traceable	yes

PARAMETER	VALUE
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Standards	TIA-FOTP-124A compliant
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Notes

From EXFO FTB-5500B/FTB-5800 specification sheet (FTB-5500B column). Sensitivity is typical for Cband and may improve with averaging; pair with appropriate polarized source such as FLS-110 or FLS-5834A per ordering guide.

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.