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Data Sheet

August 14, 2026

EXFO

Exfo FPMD-5600 Femtosecond PMD Analyzer

Exfo Fiber Characterization Systems. Resolution: ** 0.03 nm over C+L-band, Accuracy: ** &lt;.



MODEL

Exfo FPMD-5600

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FPMD-5600

LISTING

<https://aumictechlabs.com/products/fpmd-5600-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo FPMD-5600 Femtosecond PMD Analyzer is a precision instrument for measuring polarization mode dispersion (PMD) in optical fiber systems. It employs femtosecond laser technology and Fourier-transform-based Interferometric (FPI) analysis - mathematically equivalent to Jones Matrix Eigenanalysis and approved by ITU, IEC, and TIA standards - to characterize PMD down to the femtosecond range. Essential for high-speed optical networks (10, 40, and 100 Gbit/s), the analyzer measures all Stokes parameters (s0, s1, s2, s3) and differential group delay as a function of wavelength or frequency. Its design minimizes environmental sensitivity to stress and temperature variations, delivering unbiased results even in production floor environments. Technical Specifications PMD Measurement Range: Down to femtosecond range Stokes Parameters: Complete characterization of s0, s1, s2, s3 Wavelength Range (Standard Calibration): 1530 nm to 1600 nm; custom ranges available Spectral Resolution: 0.03 nm over C+L-band DUT Gain/Attenuation Support: +25 dB gain to -45 dB attenuation Measurement Accuracy: <0.5% variation (verified against NIST standard, 372 fs PMD artifact) Key Features Broadband non-polarized ASE source integrated Polarization synthesizer (0°, 45°, 90°) for

complete state generation Fourier transform spectrum analyzer with dedicated polarimeter FPI technique based on Poincaré Sphere Analysis Plug-and-measure routine for rapid deployment Customizable user profiles Handles composite systems with gain, attenuation, and filtering Typical Applications High-speed optical network characterization and validation Fiber manufacturing quality control and process optimization PMD artefact and standard verification Polarization state analysis across C+L-band wavelengths Compatibility & Integration Fully compatible with ITU, IEC, and TIA standard measurement methodologies. Accepts Devices Under Test with integrated ASE source coupling. Standard operation within 1530–1600 nm; measurement outside calibration range may produce erroneous results.

FPMD5600 Characteristics / Specifications

PARAMETER	VALUE
Model	FTB-5600 / FPMD-5600
Wavelength Range	1520 to 1580 nm
Maximum Cumulative PMD	greater than or equal to 20 ps
Minimum Measurable Cumulative PMD	0.1 ps
Cumulative PMD Uncertainty	plus or minus (0.1 plus 5 percentxPMD)
PMD Dynamic Range	15 dB
Distance Uncertainty OTDR	plus or minus 10 m
Size HxWxD	96 mm x 75 mm x 281 mm
Weight	2 kg
Operating Temperature	0 C to 40 C
Storage Temperature	minus 40 C to 70 C
Relative Humidity	0 percent to 93 percent non-condensing
Platform Compatibility	FTB-500 / FTB-4 Pro
Technology	RS-POTDR random-scrambling tunable polarization-sensitive OTDR
Spec Ambient	23 C plus or minus 2 C on buried fibers typical
Laser Safety	Class 1
Connector Interface	EXFO EUI EI or EA
Minimum PMD Condition	lowest PMD range 100 SOP 100 ns pulse 2 km spatial smoothing
PMD Dynamic Range Condition	275 ns pulse 2000 averages 4 km spatial smoothing fiber-dependent
Form Factor	FTB module
Related CD PMD Combo	FTB-5700 single-ended analyzer
Spec Class	typical unless otherwise stated
Humidity	0 percent to 93 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	0 percent to 93 percent non-condensing
Relative Humidity	0 percent to 93 percent non-condensing
Platform Compatibility	FTB-500 / FTB-4 Pro
Technology	RS-POTDR random-scrambling tunable polarization-sensitive OTDR
Spec Ambient	23 C plus or minus 2 C on buried fibers typical
Laser Safety	Class 1
Connector Interface	EXFO EUI EI or EA
Minimum PMD Condition	lowest PMD range 100 SOP 100 ns pulse 2 km spatial smoothing
PMD Dynamic Range Condition	275 ns pulse 2000 averages 4 km spatial smoothing fiber-dependent
Form Factor	FTB module
Related CD PMD Combo	FTB-5700 single-ended analyzer
Spec Class	typical unless otherwise stated Notes From EXFO FTB-5600 Distributed PMD Analyzer specification sheet and user-guide technical specifications. Queue slug FPMD-5600 maps to FTB-5600 distributed PMD module.

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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Model	FTB-5600 / FPMD-5600
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Weight	2 kg
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Platform Compatibility	FTB-500 / FTB-4 Pro
Technology	RS-POTDR random-scrambling tunable polarization-sensitive OTDR
Spec Ambient	23 C plus or minus 2 C on buried fibers typical
Laser Safety	Class 1
Connector Interface	EXFO EUI EI or EA
Minimum PMD Condition	lowest PMD range 100 SOP 100 ns pulse 2 km spatial smoothing
PMD Dynamic Range Condition	275 ns pulse 2000 averages 4 km spatial smoothing fiber-dependent
Form Factor	FTB module
Related CD PMD Combo	FTB-5700 single-ended analyzer
Spec Class	typical unless otherwise stated
Notes	
From EXFO FTB-5600 Distributed PMD Analyzer specification sheet and user-guide technical specifications. Queue slug FPMD-5600 maps to FTB-5600 distributed PMD module.	

Laser Safety

Laser Safety: Class 1 Connector Interface: EXFO EUI EI or EA Minimum PMD Condition: lowest PMD range 100 SOP 100 ns pulse 2 km spatial smoothing PMD Dynamic Range Condition: 275 ns pulse 2000 averages 4 km spatial smoothing fiber-dependent Form Factor: FTB module Related CD PMD Combo: FTB-5700 single-ended analyzer Spec Class: typical unless otherwise stated Notes From EXFO FTB-5600 Distributed PMD Analyzer

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.