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Data Sheet
August 14, 2026

EXFO

Exfo FTB-5800 Chromatic Dispersion Analyzer

Exfo Fiber Characterization Systems. Dynamic Range: ** 47 dB (with FLS-5800 source).

MODEL Exfo FTB-5800	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU FTB-5800	LISTING https://aumictechlabs.com/products/ftb-5800-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO FTB-5800 Chromatic Dispersion Analyzer is a module for precise characterization of chromatic dispersion in optical fibers across 10 Gbit/s, 40 Gbit/s, and 100 Gbit/s applications. Using the phase-shift measurement method, it analyzes phase variations at fixed frequencies to calculate CD with exceptional repeatability. The analyzer's "no communication" architecture between source and receiver enables testing of complete fiber links, including through cascaded amplifiers and one-way devices like EDFAs, without compromising measurement accuracy. Technical Specifications Measurement Method: Phase-shift method Data Rates: 10 Gbit/s (OC-192/STM-64), 40 Gbit/s (OC-768/STM-256), 100 Gbit/s ready Wavelength Range: C and L bands Dispersion Repeatability: ≤0.04 ps/nm Zero-Dispersion Wavelength (λ_0) Repeatability: ≤0.1 nm Dispersion Slope Repeatability at λ_0: ≤0.03 (%) Measurement Time: <1 second per point Fiber Length Range: 5400 km Dynamic Range: 47 dB (with FLS-5800 source) Maximum Cascaded Amplifiers: 250 over >12,000 km link length Key Features Tests complete optical links without sectioning, eliminating cumulative error Field-ready deployment reduces measurement time and manipulation errors Intuitive software for real-time acquisition, analysis, and data visualization

FastReporter offline analysis tool with PDF, Excel, and HTML report generation Customizable threshold detection for dispersion and slope parameters at λ_0 Compatible with all fiber types Typical Applications Network commissioning and acceptance testing at multiple data rates Troubleshooting transmission impairments caused by chromatic dispersion Maintenance and long-term monitoring of installed fiber routes Performance verification through EDFAs and amplified spans Validation of nonlinear effect compensation strategies Compatibility & Integration Designed as a four-slot module for EXFO FTB-200 and FTB-500 platforms, with compatibility extended to FTB-400 Universal Test System and FTB-4 Pro platform. Allows simultaneous multi-parameter testing within host platforms.

FTB5800 Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range Measurement	1530 to 1625 nm
Wavelength Range Displayed	1200 to 1700 nm
Wavelength Step Minimum	0.1 nm
Measurement Points Maximum	950 user-definable
Dynamic Range	42 dB
Wavelength Uncertainty	0.1 nm
Dispersion Uncertainty 20 km G.6	1.9 ps/nm guaranteed
Dispersion Uncertainty 120 km G.6	3.1 ps/nm
Dispersion Repeatability 20 km	0.04 ps/nm
Dispersion Repeatability 80 km	0.2 ps/nm
Dispersion Repeatability 120 km	1.1 ps/nm
Zero Dispersion Wavelength Repeatability 20 km	0.1 nm
Zero Dispersion Wavelength Repeatability 80 km	0.14 nm
Zero Dispersion Wavelength Repeatability 120 km	0.8 nm
Dispersion Slope Repeatability at Lambda0 20 km	0.03%
Minimum Fiber Length	less than 1 km
Maximum Fiber Length	greater than 5400 km
Measurement Time Per Point Minimum	less than 1 s
Operating Temperature	0 C to 40 C
Storage Temperature	-20 C to 50 C
Relative Humidity	0% to 90% noncondensing
Module Size HxWxD	9.6 × 10 × 26.0 cm
Module Weight	2 kg (4.5 lb)

PARAMETER	VALUE
Platform Compatibility	FTB-500
Test Conditions	typical at 23 C +/-1 C after warm-up with FC connectors
Wavelength range	Measurement: 1530 to 1625 nm
Wavelength repeatability	20 km: 0.1 nm
Humidity	0% to 90% noncondensing

FTB5800 Specifications

PARAMETER	VALUE
Key Features	Phase-shift CD method compliant with IEC 60793-1-42 and TIA-FOTP-169
Test through EDFAs (patented design)	100 Gbit/s-ready performance class
No communication required between source and receiver	User-definable measurement points up to 950
Technical Specifications	Wavelength Range Measurement: 1530 to 1625 nm

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 C to 50 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	0% to 90% noncondensing
Relative Humidity	0% to 90% noncondensing
Module Size HxWxD	9.6 × 10 × 26.0 cm
Module Weight	2 kg (4.5 lb)
Platform Compatibility	FTB-500
Test Conditions	typical at 23 C +/-1 C after warm-up with FC connectors Notes From EXFO FTB-5500B/FTB-5800 PMD and CD Analyzers specification sheet (FTB-5800 column). Dynamic range and length limits assume proper source pairing; uncertainty is not guaranteed at range extremes.

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.

performance class
No communication required between source and receiver
User-definable measurement points up to 950

Technical Specifications

Technical Specifications

PARAMETER	VALUE
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Wavelength Range Displayed	1200 to 1700 nm
Wavelength Step Minimum	0.1 nm
Measurement Points Maximum	950 user-definable
Dynamic Range	42 dB
Wavelength Uncertainty	0.1 nm
Dispersion Uncertainty 20 km G.652	1.6 ps/nm
Dispersion Uncertainty 120 km G.652	3.1 ps/nm
Dispersion Uncertainty 20 km G.655	1.9 ps/nm guaranteed
Dispersion Repeatability 20 km	0.04 ps/nm
Dispersion Repeatability 80 km	0.2 ps/nm
Dispersion Repeatability 120 km	1.1 ps/nm
Zero Dispersion Wavelength Repeatability 20 km	0.1 nm
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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
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

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