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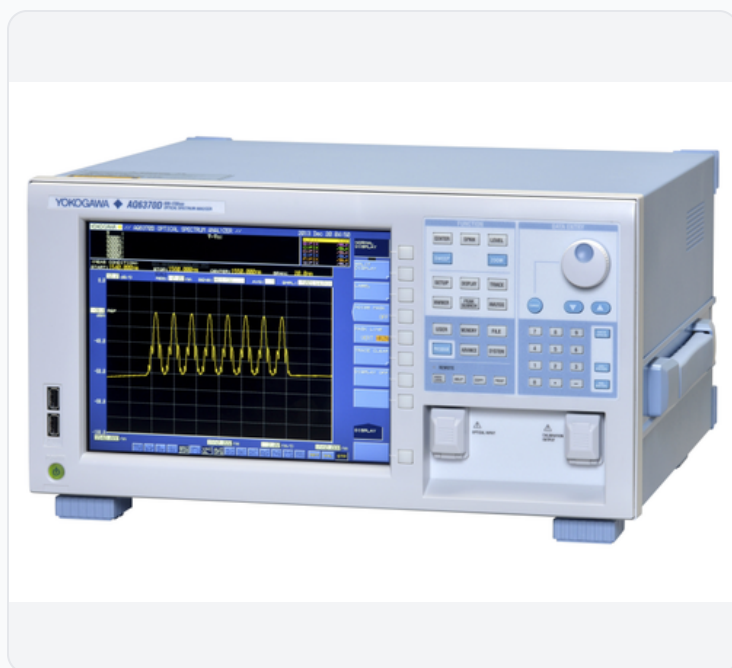
Data Sheet

August 14, 2026

EXFO

Exfo FTB-5240S-P Optical Spectrum Analyzer Module

The EXFO FTB-5240S-P is an Optical Spectrum Analyzer (OSA) module designed for the FTB-200, FTB-500, and FTB-5240 platforms. It offers high-performance spectral analysis for various optical communication applications, including DWDM and CWDM system testing, spectral component analysis, and general-purpose optical measurements. This module provides accurate and reliable measurements of optical power, wavelength, and signal-to-noise ratio (OSNR), essential for ensuring the quality and performance of optical networks.



MODEL

Exfo FTB-5240S-P

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FTB-5240S-P

LISTING

<https://aumictechlabs.com/products/ftb-5240s-p-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO FTB-5240S-P Optical Spectrum Analyzer module delivers high-precision spectral analysis across the C- and L-bands for DWDM, CWDM, and advanced optical network deployments. This plug-in module integrates into FTB-2, FTB-2 Pro, FTB-400, FTB-500, and FTB-5240 platforms, enabling rapid commissioning, maintenance, and fault isolation in modern optical systems. The instrument provides simultaneous measurements of optical power, wavelength, and in-band OSNR with exceptional accuracy and dynamic range. Technical Specifications Spectral Performance Wavelength Range: 1250 nm to 1650 nm Wavelength Uncertainty: ± 0.05 nm typical;

± 0.01 nm after user calibration (within 10 nm of calibration point) Resolution Bandwidth: 0.065 nm (FWHM) Wavelength Linearity: ± 0.01 nm typical Wavelength Repeatability: ± 0.003 nm (2σ) Optical Rejection Ratio: Up to 40 dBc at 0.2 nm (25 GHz) and 50 dBc at 0.4 nm (50 GHz); enhanced rejection with FTB-5240B option Power & Dynamic Range Input Power Range: -70 dBm to $+23$ dBm per channel Maximum Total Safe Power: $+29$ dBm Dynamic Range: 93 dB typical (exceeds 90 dB per scan) Absolute Power Uncertainty: ± 0.5 dB Power Repeatability: ± 0.05 dB (2σ) OSNR Measurement In-band OSNR analysis via PROS-OSNR method Accurate measurement in systems with fluctuating noise floors Optimized for 40 Gbit/s and ROADM architectures Key Features Dedicated measurement modes: DWDM, CWDM, EDFA, signal drift, spectral transmittance, DFB laser analysis Internal wavelength reference with optional user calibration Dual connector support: EI (UPC) and EA (APC) EXFO universal interfaces Operating temperature range: 0°C to 40°C Compact form factor: 96 mm H $\times$ 51 mm W $\times$ 260 mm D (1.5 kg) Typical Applications DWDM system characterization and monitoring CWDM channel verification EDFA gain and noise figure analysis Wavelength drift detection Component spectral transmittance measurement DFB laser spectral purity assessment

FTB5240SP Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	1250 to 1650 nm
Wavelength Uncertainty 1520 to 1610 nm	plus or minus 0.05 nm
Wavelength Uncertainty After User Cal Typical	plus or minus 0.01 nm
Resolution Bandwidth FWHM Typical	0.065 nm
Wavelength Linearity Typical	plus or minus 0.01 nm
Wavelength Repeatability 2 Sigma	plus or minus 0.003 nm
Dynamic Range Per Channel	minus 80 to plus 18 dBm with averaging
Maximum Total Safe Power	plus 23 dBm
Absolute Power Uncertainty At 1550 nm Minus 10 dBm	plus or minus 0.5 dB
Power Repeatability 2 Sigma Typical	plus or minus 0.05 dB
In Band OSNR Dynamic RangeSPTypical	greater than 35 dB
In Band OSNR Uncertainty Typical	plus or minus 0.5 dB
In Band OSNR Repeatability Typical	plus or minus 0.2 dB
In Band Measurement Time Typical	less than 6 s for eight scans
Data Signal Rate Class	up to 100 Gbit/s
Module Size Class	FTB OSA module
Platform Compatibility	FTB modular platforms
Ambient Spec Condition	23 C plus or minus 2 C after warm-up
Connector Spec Condition	FC/UPC unless otherwise specified
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated
Bandwidth	FWHM Typical: 0.065 nm
Wavelength repeatability	2 Sigma: plus or minus 0.003 nm

PARAMETER	VALUE
Power repeatability	2 Sigma Typical: plus or minus 0.05 dB

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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PARAMETER	VALUE
Wavelength Range	1250 to 1650 nm
Wavelength Uncertainty 1520 to 1610 nm	plus or minus 0.05 nm
Wavelength Uncertainty After User Cal Typical	plus or minus 0.01 nm
Resolution Bandwidth FWHM Typical	0.065 nm
Wavelength Linearity Typical	plus or minus 0.01 nm
Wavelength Repeatability 2 Sigma	plus or minus 0.003 nm
Dynamic Range Per Channel	minus 80 to plus 18 dBm with averaging
Maximum Total Safe Power	plus 23 dBm
Absolute Power Uncertainty At 1550 nm Minus 10 dBm: plus or minus 0.5 dB	
Specifications	
PARAMETER	VALUE
Power Repeatability 2 Sigma Typical	plus or minus 0.05 dB
In Band OSNR Dynamic RangeSPTypical	greater than 35 dB
In Band OSNR Uncertainty Typical	plus or minus 0.5 dB
In Band OSNR Repeatability Typical	plus or minus 0.2 dB
In Band Measurement Time Typical	less than 6 s for eight scans
Data Signal Rate Class	up to 100 Gbit/s
Module Size Class	FTB OSA module
Platform Compatibility	FTB modular platforms
Ambient Spec Condition	23 C plus or minus 2 C after warm-up
Connector Spec Condition	FC/UPC unless otherwise specified
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated

Notes

From EXFO FTB-5240S/BP Optical Spectrum Analyzers specification sheet S-P column. BP models improve RBW further; confirm Svs S-P vs BP option codes on the faceplate.

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.