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Data Sheet

August 14, 2026

EXFO

Exfo IQ-5240 High-Performance Optical Spectrum Analyzer

Exfo Optical Spectrum Analyzers. Accuracy: ** 65 pm, Bandwidth: ** 65 pm (C-band), Dynamic Range: ** >



MODEL

Exfo IQ-5240

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQ-5240

LISTING

<https://aumictechlabs.com/products/iq-5240-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO IQ-5240 is a optical spectrum analyzer built for precision spectral characterization in telecommunications and optical component testing. This benchtop instrument delivers the resolution and speed required for demanding WDM testing, EDFA gain analysis, and drift measurements across the C-band and extended wavelength range. Technical Specifications Wavelength Range: 1250 nm to 1650 nm Resolution Accuracy: 65 pm Filter Resolution Bandwidth: 65 pm (C-band) Dynamic Range: >50 dBc @ 1 nm from peak Wavelength Linearity: ±0.1 dB over 20 dB range Wavelength Repeatability: ±0.05 dB Polarization Dependency: ±0.1 dB typical Optical Rejection Ratio: 40 dBc at 25 GHz (0.2 nm) Scanning Speed: 5000 data points over 50 nm span with 10 pm resolution in <1 second; alternatively 5000 data points over 25 nm span with 5 pm resolution in <1 second Monochromator: Double-pass Littman-Metcalf design Wavelength Control: Gearless DC motor with high-resolution encoder Key Features Double-pass Littman-

Metcalf monochromator ensures premium filter resolution and high stability Gearless motor and encoder architecture minimize misalignment and inaccuracies 50 GHz spacing requirements GPIB interface for remote control and data collection Typical Applications WDM system characterization EDFA gain analysis Drift measurements on optical signals and devices Compatibility & Integration Modular design integrates into the IQ-200 Optical Test System GPIB interface for instrument control Standard EXFO optical interface; EUI connector adapters sold separately

IQ5240 Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	1250 to 1650 nm
Resolution Bandwidth FWHM Typical	0.065 nm
Wavelength Uncertainty	+/-0.05 nm
Wavelength Uncertainty After User Calibration Typical	+/-0.015 nm class
Wavelength Repeatability	+/-0.003 nm
Wavelength Linearity Typical	+/-0.01 nm
Dynamic Range	18 to -75 dBm with averaging
Optical Rejection Ratio at 25 GHz Typical	40 dBc
Optical Rejection Ratio at 25 GHz Minimum	35 dBc
Optical Rejection Ratio at 50 GHz Typical	50 dBc
Optical Rejection Ratio at 50 GHz Minimum	45 dBc
PDL at 1550 nm Typical	+/-0.07 dB
PDL at 1550 nm Maximum	+/-0.15 dB
Scanning Time 35 nm Span Full Resolution Class	less than 1.5 s
ORL	>=40 dB
Test Conditions	23 C +/-2 C after warm-up
Platform Family	IQ / FTB-5200 series high-performance OSA
Optical Rejection Ratio at 100 GHz Typical Class	45 dBc family high-perf column
In Band OSNR Capability Class	high-performance OSA column supports denser grids
Warm Up Condition	after warm-up at 23 C +/-2 C
Connector Interface Class	UPC unless otherwise specified
Platform	IQ optical test system high-performance OSA module

PARAMETER	VALUE
Bandwidth	FWHM Typical: 0.065 nm

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 optical spectrum analyzer for DWDM/CWDM applications in the IQ optical test platform family. OEM FTB/IQ-5200-series specification tables for the high-performance column list 1250 to 1650 nm coverage, 0.065 nm typical FWHM resolution, 18 to -75 dBm dynamic range, and optical rejection ratio performance supporting dense channel spacing.

Applications

High-performance DWDM OSA measurements in lab IQ platforms, in-band OSNR class testing on denser grids, and wavelength/power characterization across the CWDM band.

Key Features

1250 to 1650 nm wavelength coverage

High-performance resolution and ORR versus FTB-5230 class

18 to -75 dBm dynamic range class with averaging

Wavelength repeatability +/-0.003 nm class

ORL >=40 dB

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Wavelength Range	1250 to 1650 nm
Resolution Bandwidth FWHM Typical	0.065 nm
Wavelength Uncertainty	+/-0.05 nm
Wavelength Uncertainty After User Calibration Typical	+/-0.015 nm class
Wavelength Repeatability	+/-0.003 nm
Wavelength Linearity Typical	+/-0.01 nm
Dynamic Range	18 to -75 dBm with averaging

Power Uncertainty at 1550 nm -10 dBm: +/-0.4 dB

Specifications

PARAMETER	VALUE
Optical Rejection Ratio at 25 GHz Typical	40 dBc
Optical Rejection Ratio at 25 GHz Minimum	35 dBc
Optical Rejection Ratio at 50 GHz Typical	50 dBc
Optical Rejection Ratio at 50 GHz Minimum	45 dBc
PDL at 1550 nm Typical	+/-0.07 dB
PDL at 1550 nm Maximum	+/-0.15 dB

Scanning Time 35 nm Span Full Resolution Class: less than 1.5 s

Specifications

PARAMETER	VALUE
ORL	>=40 dB
Test Conditions	23 C +/-2 C after warm-up
Platform Family	IQ / FTB-5200 series high-performance OSA

Optical Rejection Ratio at 100 GHz Typical Class: 45 dBc family high-perf column

Specifications

PARAMETER	VALUE
In Band OSNR Capability Class	high-performance OSA column supports denser grids
Warm Up Condition	after warm-up at 23 C +/-2 C
Connector Interface Class	UPC unless otherwise specified
Platform	IQ optical test system high-performance OSA module

Notes
From EXFO FTB-5200 series Optical Spectrum Analyzers specification sheet high-performance (FTB-5240) column applied to IQ-5240 family naming. Confirm IQ versus FTB hardware revision on the module label before citing RBW/ORR.

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.