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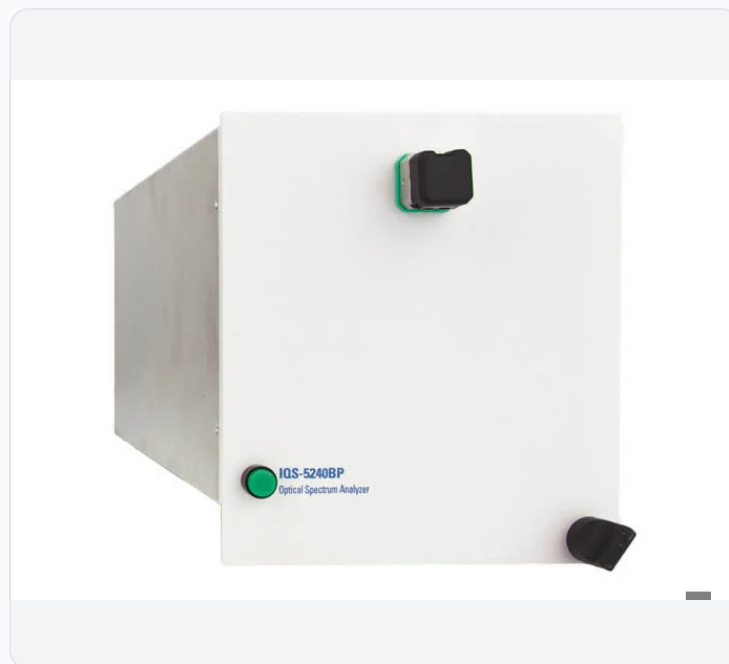
Data Sheet

August 14, 2026

EXFO

Exfo IQS-5240S/BP- Optical Spectrum Analyzers

The EXFO IQS-5240S/BP is a optical spectrum analyzer engineered for precise characterization of DWDM, ROADM, and advanced modulation format systems. It delivers sub-picometer resolution, greater than 35 dB dynamic range, and fast measurement times for in-band OSNR and Pol-Mux OSNR analysis up to 400 Gbit/s. The instrument supports comprehensive WDM investigation, laser characterization, and spectral transmittance measurement across the C-band, making it suitable for network commissioning, field validation, and laboratory testing applications. In-Band OSNR Measurement: Up to 100 Gbit/s data signals; measurement time less than 6 seconds Pol-Mux OSNR Measurement: Supports data signals up to 400 Gbit/s; 1 minute 20 seconds (all channels) or less than 5 seconds (single channel off) WDM Investigator: Signal and noise per-channel analysis with impairment detection (crosstalk, non-linear effects)



MODEL

Exfo IQS-5240S/BP

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQS-5240S/BP

LISTING

<https://aumictechlabs.com/products/iqs-5240s-bp-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO IQS-5240S/BP is a optical spectrum analyzer engineered for precise characterization of DWDM, ROADM, and advanced modulation format systems. It delivers sub-picometer resolution, greater than 35 dB dynamic range, and fast measurement times for in-band OSNR and Pol-Mux OSNR analysis up to 400 Gbit/s. The instrument supports comprehensive WDM

investigation, laser characterization, and spectral transmittance measurement across the C-band, making it suitable for network commissioning, field validation, and laboratory testing applications.

Technical Specifications

Optical Performance Wavelength Range: 1520 nm to 1610 nm Resolution Bandwidth (RBW): 33 pm (approx. 4.5 GHz) FWHM Dynamic Range (OSNR): Greater than 35 dB OSNR Measurement Uncertainty: ± 0.5 dB OSNR Repeatability: ± 0.2 dB Rejection Ratio: -35 dBc at 0.1 nm Noise-Equivalent Bandwidth (NEB): Calibrated 1250 nm to 1650 nm Input Power Handling: -10 dBm at 1550 nm Signal Analysis In-Band OSNR Measurement: Up to 100 Gbit/s data signals; measurement time less than 6 seconds Pol-Mux OSNR Measurement: Supports data signals up to 400 Gbit/s; 1 minute 20 seconds (all channels) or less than 5 seconds (single channel off)

Modulation Support: Any format including DP-QPSK and DP-BPSK Channel Spacing: 12.5 GHz DWDM to CWDM

Key Features

WDM Investigator: Signal and noise per-channel analysis with impairment detection (crosstalk, non-linear effects, carrier leakage, PMD pulse spreading)

DFB Laser Analysis: Characterization of central wavelength, peak power, bandwidth, and SMSR

Fabry-Perot Laser Analysis: Automatic characterization for central wavelength, RMS width, and FWHM

Spectral Transmittance: Insertion loss and channel isolation measurement at multiple power levels

Commissioning Assistant: Pol-Mux OSNR support with IEC-61282-12 and CCSA YD/T 2147-2010 compliance

Typical Applications DWDM and ROADM system characterization Spectral component measurement and signal quality validation Network commissioning and turn-up validation In-band OSNR and Pol-Mux OSNR measurements DFB and Fabry-Perot laser source qualification

Compatibility & Integration The IQS-5240S/BP operates on the FTB-2 and FTB-2 Pro platforms, supporting both field and laboratory deployment scenarios.

IQS5240SBP 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 Calibration Typical	plus or minus 0.01 nm
Resolution Bandwidth FWHM TypicalSModel	0.065 nm
Wavelength Linearity Typical	plus or minus 0.01 nm
Wavelength Repeatability 2 Sigma	plus or minus 0.003 nm
Optical Rejection Ratio At 0.2 nm	35 dB (40 typical)
Optical Rejection Ratio At 0.4 nm	45 dB (50 typical)
Channel Spacing Class	25 to 200 GHz and CWDM
PDL At 1550 nm Typical	plus or minus 0.08 dB
ORL	greater than or equal to 40 dB
Dynamic Range Per Channel	minus 80 to plus 18 dBm
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
Module Size HxWxD	125 mm x 112 mm x 282 mm
Module Weight	1.5 kg
Operating Temperature	0 C to 40 C
Storage Temperature	minus 20 C to 50 C
Relative Humidity	0 percent to 95 percent non-condensing

PARAMETER	VALUE
Bandwidth	FWHM TypicalSModel: 0.065 nm
Wavelength repeatability	2 Sigma: plus or minus 0.003 nm
Power repeatability	2 Sigma Typical: plus or minus 0.05 dB
Humidity	0 percent to 95 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 50 C
Operating temperature	0 C to 40 C
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Humidity	0 percent to 95 percent non-condensing
Relative Humidity	0 percent to 95 percent non-condensing Notes From EXFO IQS-5240S-P/BP Optical Spectrum Analyzers datasheet SPIQS5240SP/BP.4AN at 23 plus or minus 2 C with FC/UPC after warm-up. BP model improves RBW to 0.033 nm typical and ORR; confirm faceplate option codesSvs S-P vs BP.

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
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
Module Size HxWxD	125 mm x 112 mm x 282 mm
Module Weight	1.5 kg
Operating Temperature	0 C to 40 C
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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

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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.