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Data Sheet

August 2, 2026

EXFO

Exfo FTB-5240 1250nm Portable Optical Spectrum Analyzer

Exfo FTB-5240 1250nm Portable Optical Spectrum Analyzer The FTB5240 provides a portable optical spectrum analyzer (OSA) module for Exfo FTB field-test platforms, designed for DWDM and telecom-band spectral analysis with wavelength coverage from approximately 1250 nm class into standard telecom bands. Catalog titles reference "1250nm" as the short-wavelength coverage class rather than a single fixed line. WDM channel characterization and channel-plan verification; EDFA gain-shape and ASE profile analysis; wavelength drift and stability monitoring; DFB and tunable laser spectral evaluation; filter and WSS spectral transmittance measurements; field and lab optical network commissioning with FTB mainframes. The FTB5240 provides a portable optical spectrum analyzer (OSA) module for Exfo FTB field-test platforms, designed for DWDM and telecom-band spectral analysis with wavelength coverage from approximately 1250 nm class into standard telecom bands. Catalog titles reference "1250nm" as the short-wavelength coverage class rather than a single fixed line. WDM channel characterization and channel-plan verification; EDFA gain-shape and ASE profile analysis; wavelength drift and stability monitoring; DFB and tunable laser spectral evaluation; filter and WSS spectral transmittance measurements; field and lab optical network commissioning with FTB mainframes.



MODEL

Exfo FTB-5240

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FTB-5240

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo FTB-5240 1250nm Portable Optical Spectrum Analyzer delivers lab-grade spectral analysis in a field-deployable package. Built for telecommunications networks employing DWDM technology, it performs component and system testing across manufacturing, installation, commissioning, and maintenance workflows. The instrument combines a rugged magnesium shell with splash resistance and battery operation, enabling measurements in demanding environments without sacrificing measurement fidelity.

Technical Specifications

Wavelength & Resolution
Wavelength range: 1250 nm to 1650 nm
Resolution bandwidth (FWHM): 0.065 nm (FTB-5240, FTB-5240S/BP); 0.033 nm (FTB-5240B)
Wavelength accuracy: ± 0.05 nm (FTB-5240B, FTB-5240S/BP); ± 30 pm internal calibration or ± 15 pm external calibration in C+L band (FTB-5240B)

Power Measurement
Measurable input power range: +18 dBm to -75 dBm per channel
Maximum input power: +23 dBm per channel (FTB-5240S-HPW); +29 dBm total safe power
Absolute power uncertainty: ± 0.5 dB
Power repeatability (2σ): ± 0.05 dB
Dynamic range: 93 dB

Optical Rejection
ORR (FTB-5240): 40 dBc at 0.2 nm; 50 dBc at 0.4 nm from peak
ORR (FTB-5240B): 40 dBc at 0.1 nm from peak
ORR (FTB-5240S/BP): 50 dBc at 0.2 nm; 55 dBc at 0.4 nm

Channel Support
Standard spacing: 25 GHz, 50 GHz, 100 GHz
CWDM capable; 12.5 GHz minimum spacing (FTB-5240BP)

Key Features
Test modes: Normal, In-Band, Drift (FTB-5240)
DFB laser, EDFA, Fabry-Perot laser, and spectral transmittance testing
In-Band OSNR measurement via polarization-resolved method (FTB-5240S-P, FTB-5240BP)
Trace comparison and spectral analysis
Monitor output port for single-channel external analysis
FC/UPC connectors
Operating temperature: 23 °C ± 2 °C for rated accuracy

Compatibility & Integration
Houses within EXFO FTB-400 or FTB-300 Universal Test Systems. FTB-5240S also compatible with FTB-200 Compact Platform. Local control via ToolBox software; remote control via GPIB, RS-232, or Ethernet TCP/IP with SCPI commands or LabVIEW drivers. Supports external printer, modem, mouse, keyboard, and monitor peripherals.

Features & description

From manufacturer datasheet

Features

- Portable OSA module for Exfo FTB platform family
- DWDM-oriented spectral analysis in telecom wavelength bands
- Short-wavelength coverage from approximately 1250 nm class
- WDM, amplifier, laser, and filter spectral test workflows
- Integrates with FTB host software and modular field-test systems
- Distinct from FTB-5240B and FTB-5240S-P configuration variants

FTB5240 Characteristics / Specifications

PARAMETER	VALUE
Model	FTB-5240 (FTB5240)
Manufacturer	Exfo
Instrument Type	Portable Optical Spectrum Analyzer Module
Host Platform	Exfo FTB modular field-test systems
Wavelength Coverage	Approximately 1250 nm class into telecom bands (per catalog "1250nm" designation)
Application Focus	DWDM OSA, amplifier and laser spectral analysis
Related Variants	FTB-5240B, FTB-5240S-P (separate configurations--do not assume identical dynamic range or options)
Alias	FTB5240 Standard Operating Conditions Install incompatible FTB mainframe with recognized module slot and software support. Allow platform boot and module initialization before spectral measurements. Operate within rated optical input levels per module faceplate and host configuration.

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

Specifications

PARAMETER	VALUE
Model	FTB-5240 (FTB5240)
Manufacturer	Exfo
Instrument Type	Portable Optical Spectrum Analyzer Module
Host Platform	Exfo FTB modular field-test systems
Wavelength Coverage	Approximately 1250 nm class into telecom bands (per catalog "1250nm" designation)
Application Focus	DWDM OSA, amplifier and laser spectral analysis
Related Variants	FTB-5240B, FTB-5240S-P (separate configurations-do not assume identical dynamic range or options)
Alias	FTB5240

Standard Operating Conditions

Install incompatible FTB mainframe with recognized module slot and software support. Allow platform boot and module initialization before spectral measurements. Operate within rated optical input levels per module faceplate and host configuration.

Operational Notes

The FTB-5240 is an OSA plug-in module, not a stand-alone instrument-capabilities depend on FTB host and software. Do not confuse base FTB-5240 with FTB-5240B or FTB-5240S-P; dynamic range, polarization handling, and option sets may differ by suffix. Confirm exact configuration from faceplate and module ID before quoting spectral limits. Alias FTB5240.

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.