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Data Sheet

August 14, 2026

EXFO

Exfo IQ-3100-BWEI Variable Attenuator

The Exfo IQ-3100-BWEI is a variable optical attenuator module designed for use in Exfo's IQ-2000 and IQ-3000 series test platforms. It provides precise control over optical power levels, enabling accurate testing and characterization of optical components and systems. This module is ideal for applications requiring adjustable attenuation, such as receiver sensitivity testing, dynamic range verification, and system margin analysis.



MODEL

Exfo IQ-3100-BWEI

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQ-3100-BWEI

LISTING

<https://aumictechlabs.com/products/iq-3100-bwei-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo IQ-3100-BWEI is a variable attenuator module engineered for precise optical power control within IQ-2000 and IQ-3000 series test platforms. It delivers sub-dB resolution and exceptional repeatability across a broad wavelength range, enabling accurate receiver sensitivity testing, dynamic range verification, and optical margin analysis. The module supports multiple attenuation modes and programmable step sequences, with remote control via GPIB and LabVIEW drivers. Technical Specifications Wavelength Range: 1200 nm to 1650 nm Fiber Type: 9/125 μ m singlemode Spectral Resolution: > 0.1 nm Optical Resolution: 0.005 dB Maximum Attenuation: - > 100 dB (1200–1350 nm) - > 80 dB (1350–1600 nm) - > 70 dB (1600–1650 nm) Insertion Loss: 1.5 dB typical; 1.8 dB maximum Linearity: $\pm$ 0.1 dB Repeatability: $\pm$ 0.03 dB maximum Spectral Uniformity: $\pm$ 0.1 dB Return Loss: > 55 dB typical Maximum Input Power: 25 dBm Polarization Dependent Loss:

0.2 dB max @ 20 dB attenuation; 0.3 dB max @ 50 dB attenuation Shutter Isolation: > 100 dB
Operating Temperature: Calibrated 0 °C to 31 °C; performance degrades linearly to ~50% at 40 °C
Key Features Supports absolute, relative, and X+B attenuation modes Programmable step cycling:
up to 100 attenuation steps with configurable dwell times Universal EXFO connectors with
PC/UPC interface Remote operation via GPIB command structure LabVIEW drivers and OCX
controls included Typical Applications BER testing, EDFA characterization, component and system
loss simulation, power-level monitoring, instrument calibration, linearity measurement, spectral
tuning, and WDM/OFA characterization. Compatibility & Integration One-slot module for Exfo IQ-
203, IQ-206, IQS-510P, and IQS-510E mainframes. ISO 9001 certified; FCC Part 15 compliant.

IQ3100BWEI Characteristics / Specifications

PARAMETER	VALUE
Model	IQ-3100-BWEI
Fiber Type	9/125 um singlemode
Wavelength Range	1200 to 1650 nm
WDM Uniformity Band	1520 to 1570 nm
Maximum Attenuation Module	up to 100 dB per IQ-3100 manual
Optical Return Loss BW	greater than 50 dB
Sibling Resolution	0.005 dB
Sibling Linearity	plus or minus 0.1 dB
Sibling Repeatability	plus or minus 0.03 dB
Sibling Max PDL	0.2 dB at 1550 nm attenuation less than 30 dB
Sibling Typical Return Loss B	greater than 55 dB
Sibling Max Input Power	20 dBm
Sibling Shutter Isolation	greater than 100 dB
Platform	IQ-200 Optical Test System
Connector Interface	EXFO EUI (EI code)
Remote Control	via IQ-200 host
Operating Temperature	0 C to 40 C class
Form Factor	IQ module
Program Steps Class	up to 100 attenuation steps on FVA-3100 family Program mode
Optical Return Loss	BW: greater than 50 dB
Attenuation	Module: up to 100 dB per IQ-3100 manual
Return loss	BW: greater than 50 dB

IQ3100BWEI Specifications

PARAMETER	VALUE
Key Features	WDM spectral uniformity 1520 to 1570 nm
Programmable attenuation steps	IQ-200 modular remote control
Technical Specifications	Model: IQ-3100-BWEI

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 40 C class
Operating Temperature	0 C to 40 C class
Form Factor	IQ module
Program Steps Class	up to 100 attenuation steps on FVA-3100 family Program mode Notes From EXFO IQ-3100/IQ-3300 Variable Attenuator instruction manual (B/BW definitions) and FVA-3100-B stand-alone sibling datasheet SPFVA3100. Confirm BW versusBand monitor-port BM options on the module label.

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	IQ-3100-BWEI
Fiber Type	9/125 um singlemode
Wavelength Range	1200 to 1650 nm
WDM Uniformity Band	1520 to 1570 nm
Maximum Attenuation Module	up to 100 dB per IQ-3100 manual
Optical Return Loss BW	greater than 50 dB
Sibling FVA-3100-B Max Attenuation: greater than or equal to 70 dB Sibling FVA-3100-B Typical Insertion Loss: 1.1 dB Sibling FVA-3100-B Max Insertion Loss: 1.8 dB	
Specifications	
PARAMETER	VALUE
Sibling Resolution	0.005 dB
Sibling Linearity	plus or minus 0.1 dB
Sibling Repeatability	plus or minus 0.03 dB
Sibling Max PDL	0.2 dB at 1550 nm attenuation less than 30 dB
Sibling Typical Return Loss B	greater than 55 dB
Sibling Max Input Power	20 dBm
Sibling Shutter Isolation	greater than 100 dB
Platform	IQ-200 Optical Test System
Connector Interface	EXFO EUI (EI code)
Remote Control	via IQ-200 host
Operating Temperature	0 C to 40 C class
Form Factor	IQ module
Program Steps Class	up to 100 attenuation steps on FVA-3100 family Program mode

Notes

From EXFO IQ-3100/IQ-3300 Variable Attenuator instruction manual (B/BW definitions) and FVA-3100-B stand-alone sibling datasheet SPFVA3100. Confirm BW versus Band monitor-port BM options on the module label.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.