

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

EXFO

Exfo IQ-3100 Variable Attenuator

The EXFO IQ-3100 Variable Attenuator provides adjustable optical attenuation from 0 to >50 dB. It is used for emulating fiber loss and protecting receivers during test procedures.



MODEL

Exfo IQ-3100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQ-3100

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO IQ-3100 Variable Attenuator is a programmable optical attenuator engineered to deliver precise control of optical signal levels across diverse test and measurement applications. This module provides repeatable attenuation with fine resolution and exceptional linearity, serving critical functions in BER testing, component characterization, fiber loss emulation, and receiver protection. Fully programmable through a Windows environment, it combines advanced design with high-quality components to meet the demands of engineers, system integrators, and optical laboratories. Technical Specifications Attenuation Range: 0 to >50 dB (specific models up to 100 dB) Attenuation Modes: Absolute, Relative, X+B Attenuation Steps: Up to 100 repeatable steps Dwell Time per Step: Up to 1000 hours Resolution: 0.005 dB to 0.01 dB Linearity: ± 0.1 dB Repeatability: ± 0.03 dB Spectral Uniformity: ± 0.1 dB (1520–1570 nm) Insertion Loss: 1.5–3.0 dB typical; maximum 1.8–4.5 dB depending on model and fiber type Wavelength Range: 1200–1650 nm (singlemode); 700–1350 nm (multimode) Maximum Input Power: 25–55 dBm Polarization Dependent Loss: 0.2 dB @ 20 dB attenuation; up to 0.3 dB @ 50 dB attenuation Shutter Isolation:

>100 dB Monitor Output: Typically -14.5 dB Operating Temperature: 0–31 °C (linearly decreasing to 50% at 40 °C) Calibration Wavelengths: 1310 nm and 1550 nm (singlemode); 850 nm and 1300 nm (multimode) Key Features Achieves repeatable attenuation steps with dwell times extending to 1000 hours Three attenuation modes enable absolute value, relative adjustment, and X+B offset control Spectral uniformity maintained across C-band and extended wavelength ranges Connector options include FC/APC, FC/UPC, and FC/PC configurations Typical Applications Bit-Error Rate (BER) testing and optical margin analysis EDFA and OFA characterization System and component loss simulation Accurate power-level monitoring and instrument calibration DUT input power modification with spectral preservation Receiver protection during high-power test procedures Compatibility & Integration Fully programmable module offering Windows-based control. Suitable for singlemode and multimode fiber installations across telecommunications, component testing, and laboratory environments.

Features & description

From manufacturer datasheet

Polarization Dependence Class: low PDL class on family

Return Loss Class: high ORL class on family Form Factor: single or multi slot IQ module class Display Path: IQS host display Calibration: wavelength dependent tables Related Family: IQS attenuator modules Operating Temperature Class: IQS platform ambient Power: powered by IQS mainframe Manufacturer: per instrument faceplate branding Documentation Basis: OEM datasheet or operating manual family Specification Ambient Class: 23 C class unless otherwise stated Notes Identity and capability rows from EXFO IQ/IQS variable attenuator family literature for IQ-3100. Confirm exact attenuation span IL and wavelength set on the module datasheet and calibration certificate.

IQ3100 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	EXFO IQ-3100 VOA module
Function	variable optical attenuator
Platform	IQ-200 / IQS modular mainframe
Fiber Type Class	singlemode
Wavelength Coverage Class	telecom bands class
Attenuation Range Class	wide range per IQ VOA family
Insertion Loss Class	low IL per IQ VOA family
Resolution Class	fine attenuation steps class
Repeatability Class	high repeatability class
Remote Control	SCPI via IQS
Connector Interface	EXFO universal UI adapters class
Polarization Dependence Class	low PDL class on family
Return Loss Class	high ORL class on family
Form Factor	single or multi slot IQ module class
Display Path	IQS host display
Calibration	wavelength dependent tables
Related Family	IQS attenuator modules
Operating Temperature Class	IQS platform ambient
Power	powered by IQS mainframe
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated
Attenuation	Range Class: wide range per IQ VOA family
Operating temperature	Class: IQS platform ambient
Return loss	Class: high ORL class on family

PARAMETER	VALUE
Fiber type	Class: singlemode

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: IQS platform ambient
Operating Temperature	Class: IQS platform ambient
Operating Temperature Class	IQS platform ambient
Power	powered by IQS mainframe
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated Notes Identity and capability rows from EXFO IQ/IQS variable attenuator family literature for IQ-3100. Confirm exact attenuation span IL and wavelength set on the module datasheet and calibration certificate.

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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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.