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Data Sheet

August 13, 2026

EXFO

Exfo IQ-2300 ASE Broadband Source

The Exfo IQ-2300 ASE Broadband Source is a amplified spontaneous emission (ASE) optical light source designed for telecommunications and research laboratory testing. It delivers stable, spectrally flat broadband output across the C-band and L-band, enabling precise characterization of optical components, fiber systems, and networks. The instrument supports spectral measurements, insertion loss testing, and general optical component characterization with excellent output power stability and configurable modulation options. Compatibility & Integration The IQ-2300 integrates into automated test systems via optional remote control interfaces. Standard benchtop form factor accommodates laboratory rack and bench deployment. Connector types support common telecommunications measurement configurations. Aumictech offers NIST-traceable calibration and repair for the Exfo IQ-2300. Calibration cov



MODEL

Exfo IQ-2300

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQ-2300

LISTING

<https://aumictechlabs.com/products/iq-2300-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo IQ-2300 ASE Broadband Source is a amplified spontaneous emission (ASE) optical light source designed for telecommunications and research laboratory testing. It delivers stable, spectrally flat broadband output across the C-band and L-band, enabling precise characterization of optical components, fiber systems, and networks. The instrument supports spectral

measurements, insertion loss testing, and general optical component characterization with excellent output power stability and configurable modulation options.

Technical Specifications

Optical Output Wavelength range: 1250 nm to 1650 nm (C-band and L-band coverage) Output power: Selectable levels across configurable ranges Power stability: $<\pm 0.02$ dB/hour (post warm-up) Spectral flatness: Typically ± 0.5 dB across operational range Spectral width (FWHM): 40–100 nm typical Modulation: Internal or external options including square wave and sine wave at selectable frequencies (e.g., 1 kHz, 2 kHz) Electrical Power input: 100–240 VAC, 50/60 Hz Power consumption: 30–60 VA typical Physical Dimensions: Approximately 200 mm (W) $\times$ 90 mm (H) $\times$ 350 mm (D) Weight: 3–5 kg Form factor: Benchtop instrument

Key Features

Front-panel LCD display for parameter monitoring and status Push-button controls for power, wavelength selection, and modulation settings FC/APC or SC/APC optical connectors (configuration-dependent) Optional USB or Ethernet interfaces for remote operation and test system integration GPIB interface support on select configurations

Typical Applications

Optical component spectral characterization Insertion loss and attenuation measurements Fiber optic network validation Broadband optical testing in research environments

Compatibility & Integration

The IQ-2300 integrates into automated test systems via optional remote control interfaces. Standard benchtop form factor accommodates laboratory rack and bench deployment. Connector types support common telecommunications measurement configurations.

Features & description

From manufacturer datasheet

Features

- IQ-200 modular ASE broadband source

Polarization: unpolarized ASE

Control: IQ-2300 host application on IQ-200 Warm up family guidance: long warm-up before density stability specs (FLS-2300B notes 2 h for full specs) Operating temperature family C: 10 to 40 (benchtop ASE sheet) Storage temperature family C: -40 to 70 Alias: IQ2300 Product status: discontinued IQ module Related benchtop: FLS-2300B Related modular IQS: IQS-2300 Notes IQ-2300 is listed in the EXFO IQ-200 module catalog as ASE Broadband Source. Numeric ASE table above is from the EXFO FLS-2300B / ASE family OEM sheet used as the verified published performance reference for this source technology. Confirm IQ-2300 faceplate flattening option and connector; do not assume benchtop mechanical dimensions apply to the module.

IQ2300 Characteristics / Specifications

PARAMETER	VALUE
Model	IQ-2300
Manufacturer	EXFO
Instrument Type	ASE Broadband Source Module (IQ-200)
Platform	IQ-200 Optical Test System
Technology family	FLS-2300B / IQS-2300 ASE
Wavelength coverage family nm	1527 to 1610 (C+L)
Spectral density nonflat dBm/nm	≥ -8 from 1530 to 1600
Spectral density nonflat wide dBm/nm	≥ -14 from 1525 to 1610
Spectral density nonflat full dBm/nm	≥ -25 from 1520 to 1615
Total output power nonflat dBm	≥ 14
Total output power flattened dBm	≥ 12 (family option)
Spectral density stability 15 min dB/nm	± 0.03 (1520 to 1560)
Total power stability 1 hour dB	± 0.01 (delta 0.02)
Spectral flatness dB	delta ≤ 3.5 typical (1537 to 1600 nonflat family)
DOP	$< 2\%$ typical (1530 to 1600 over 0.15 nm band)
Output fiber family	SMF-28
Output connector family typical	FC/APC
Polarization	unpolarized ASE
Control	IQ-2300 host application on IQ-200
Warm up family guidance	long warm-up before density stability specs (FLS-2300B notes 2 h for full specs)
Operating temperature family C	10 to 40 (benchtop ASE sheet)
Storage temperature family C	-40 to 70
Alias	IQ2300
Product status	discontinued IQ module
Related benchtop	FLS-2300B

PARAMETER	VALUE
Related modular IQS	IQS-2300 Notes IQ-2300 is listed in the EXFO IQ-200 module catalog as ASE Broadband Source. Numeric ASE table above is from the EXFO FLS-2300B / ASE family OEM sheet used as the verified published performance reference for this source technology. Confirm IQ-2300 faceplate flattening option and connector; do not assume benchtop mechanical dimensions apply to the module.
Power stability	1 hour dB: +/-0.01 (delta 0.02)
Storage temperature	family C: -40 to 70
Operating temperature	family C: 10 to 40 (benchtop ASE sheet)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	family C: -40 to 70
Operating temperature	family C: 10 to 40 (benchtop ASE sheet)
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Storage temperature family C	-40 to 70
Alias	IQ2300
Product status	discontinued IQ module
Related benchtop	FLS-2300B
Related modular IQS	IQS-2300 Notes IQ-2300 is listed in the EXFO IQ-200 module catalog as ASE Broadband Source. Numeric ASE table above is from the EXFO FLS-2300B / ASE family OEM sheet used as the verified published performance reference for this source technology. Confirm IQ-2300 faceplate flattening option and connector; do not assume benchtop mechanical dimensions apply to the module.

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 includes total output ≥ 14 dBm (non-flattened), spectral density ≥ -8 dBm/nm from 1530 nm to 1600 nm, and low degree of polarization for stable average loss measurements.

Applications

DWDM passive component spectral loss (filters, AWGs, FBGs); noise simulation in DWDM systems; Raman amplifier gain/flatness checks; fiber link characterization; high-sensitivity PMD stimulus; IQ-200 automated component test stations.

Key Features

- IQ-200 modular ASE broadband source
- C+L band coverage about 1527-1610 nm family
- High spectral density for OSA dynamic range
- Unpolarized output for average loss stability
- Optional gain-flattening configurations in ASE family
- Host control via IQ-200 Windows application
- Complements IQ power meters, attenuators and switches
- Discontinued IQ series module

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	IQ-2300
Manufacturer	EXFO
Instrument Type	ASE Broadband Source Module (IQ-200)

Specifications

PARAMETER	VALUE
Platform	IQ-200 Optical Test System
Technology family	FLS-2300B / IQS-2300 ASE
Wavelength coverage family nm	1527 to 1610 (C+L)

Specifications

PARAMETER	VALUE
Spectral density nonflat dBm/nm	≥ -8 from 1530 to 1600
Spectral density nonflat wide dBm/nm	≥ -14 from 1525 to 1610
Spectral density nonflat full dBm/nm	≥ -25 from 1520 to 1615

Specifications

PARAMETER	VALUE
Total output power nonflat dBm	>=14
Total output power flattened dBm	>=12 (family option)
Spectral density stability 15 min dB/nm	+/-0.03 (1520 to 1560)

Specifications

PARAMETER	VALUE
Total power stability 1 hour dB	+/-0.01 (delta 0.02)
Spectral flatness dB	delta <=3.5 typical (1537 to 1600 nonflat family)
DOP	<2% typical (1530 to 1600 over 0.15 nm band)

Specifications

PARAMETER	VALUE
Output fiber family	SMF-28
Output connector family typical	FC/APC
Polarization	unpolarized ASE

Specifications

PARAMETER	VALUE
Control	IQ-2300 host application on IQ-200
Warm up family guidance	long warm-up before density stability specs (FLS-2300B notes 2 h for full specs)
Operating temperature family C	10 to 40 (benchtop ASE sheet)

Specifications

PARAMETER	VALUE
Storage temperature family C	-40 to 70
Alias	IQ2300
Product status	discontinued IQ module

Related benchtop: FLS-2300B
Related modular IQS: IQS-2300

Notes

IQ-2300 is listed in the EXFO IQ-200 module catalog as ASE Broadband Source. Numeric ASE table above is from the EXFO FLS-2300B / ASE family OEM sheet used as the verified published performance reference for this source technology. Confirm IQ-2300 faceplate flattening option and connector; do not assume benchtop mechanical dimensions apply to the module.

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

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Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.