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Data Sheet

August 2, 2026

EXFO

Exfo IQ-6100 Erbium-Doped Fiber Amplifier (EDFA)

Exfo IQ-6100 Erbium-Doped Fiber Amplifier (EDFA) The IQ6100 provides a one-slot Erbium-Doped Fiber Amplifier (EDFA) module for the Exfo IQS-500 Intelligent Test System, designed to boost C-band optical signals for amplifier characterization, link margin testing, and WDM component evaluation. OEM catalog designation is IQS-6100; reseller and legacy references may list IQ-6100 for the same module family. EDFA gain and noise figure characterization; optical link budget and margin testing; WDM channel amplification in modular test platforms; saturated and small-signal gain verification; polarization-dependent gain screening; integration into automated IQS-500 test sequences. The IQ6100 provides a one-slot Erbium-Doped Fiber Amplifier (EDFA) module for the Exfo IQS-500 Intelligent Test System, designed to boost C-band optical signals for amplifier characterization, link margin testing, and WDM component evaluation. OEM catalog designation is IQS-6100; reseller and legacy references may list IQ-6100 for the same module family. EDFA gain and noise figure characterization; optical link budget and margin testing; WDM channel amplification in modular test platforms; saturated and small-signal gain verification; polarization-dependent gain screening; integration into automated IQS-500 test sequences.



MODEL

Exfo IQ-6100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQ-6100

LISTING

<https://aumictechlabs.com/products/iq-6100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo IQ-6100 EDFA is a amplifier module used to boost optical signal strength in fiber optic networks. Featuring a compact design, it integrates into existing systems. This EDFA ensures reliable signal amplification, maintaining signal integrity over extended distances. It supports various modulation formats and data rates, making it suitable for DWDM and other advanced optical communication systems.

Features & description

From manufacturer datasheet

Features

- One-slot IQS-500 Intelligent Test System module
- C-band amplification, 1530 to 1560 nm
- Saturated output power class greater than 14 dBm typical at +3 dBm input
- Small-signal gain minimum 29 dB at -20 dBm input
- Noise figure typical 8 dB
- Output stability ± 0.01 dB ($\Delta = 0.02$) over 15 min after 1 h warm-up
- Polarization-dependent gain less than 0.2 dB
- Optical return loss typical 35 dB
- Boosts approximately 0 to 15 dBm class signals
- Class 1M laser product

Polarization-Dependent Gain (PDG): Less than 0.2 dB

Optical Return Loss (ORL): Typical 35 dB Input/Output Power Class: Approximately 0 to 15 dBm boost range Laser Safety Class: Class 1M Alias: IQ6100 / IQS6100 Standard Operating Conditions Install in IQS-500 mainframe with adequate ventilation. Allow approximately 1 hour warm-up before stability-sensitive measurements. Operate within C-band wavelength and input power limits per module faceplate and host configuration. Operational Notes Catalog IQ-6100 and OEM IQS-6100 refer to the same EDFA module—confirm faceplate and software module ID when ordering spares or configuring test plans. Verify input power stays within rated range to avoid saturation clipping or insufficient gain. Class 1M laser—follow standard fiber optic safety practices.

IQ6100 Characteristics / Specifications

PARAMETER	VALUE
Model	IQ-6100 (OEM IQS-6100)
Manufacturer	Exfo
Instrument Type	Erbium-Doped Fiber Amplifier Module
Host Platform	IQS-500 Intelligent Test System (one slot)
Wavelength Band	C-band, 1530 to 1560 nm
Noise Figure	Typical 8 dB
Output Stability	± 0.01 dB ($\Delta=0.02$) over 15 min after 1 h warm-up
Optical Return Loss (ORL)	Typical 35 dB
Input/Output Power Class	Approximately 0 to 15 dBm boost range
Laser Safety Class	Class 1M
Alias	IQ6100 / IQS6100 Standard Operating Conditions Install in IQS-500 mainframe with adequate ventilation. Allow approximately 1 hour warm-up before stability-sensitive measurements. Operate within C-band wavelength and input power limits per module faceplate and host configuration.
Optical Return Loss	typical 35 dB - Boosts approximately 0 to 15 dBm class signals - Class 1M laser product
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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-6100 (OEM IQS-6100)
Manufacturer	Exfo
Instrument Type	Erbium-Doped Fiber Amplifier Module
Host Platform	IQS-500 Intelligent Test System (one slot)
Wavelength Band	C-band, 1530 to 1560 nm

Saturated Output Power (+3 dBm input): Typical greater than 14 dBm; minimum 13 dBm; maximum 15 dBm
Small-Signal Gain (-20 dBm input): Minimum 29 dB
Noise Figure: Typical 8 dB
Output Stability: ±0.01 dB (Δ=0.02) over 15 min after 1 h warm-up
Polarization-Dependent Gain (PDG): Less than 0.2 dB

Specifications

PARAMETER	VALUE
Optical Return Loss (ORL)	Typical 35 dB
Input/Output Power Class	Approximately 0 to 15 dBm boost range
Laser Safety Class	Class 1M
Alias	IQ6100 / IQS6100

Standard Operating Conditions
Install in IQS-500 mainframe with adequate ventilation. Allow approximately 1 hour warm-up before stability-sensitive measurements. Operate within C-band wavelength and input power limits per module faceplate and host configuration.

Operational Notes
Catalog IQ-6100 and OEM IQS-6100 refer to the same EDFA module—confirm faceplate and software module ID when ordering spares or configuring test plans. Verify input power stays within rated range to avoid saturation clipping or insufficient gain. Class 1M laser—follow standard fiber optic safety practices.

Laser Safety

Laser Safety Class: Class 1M Alias: IQ6100 / IQS6100 Standard Operating Conditions Install in IQS-500 mainframe with adequate ventilation. Allow approximately 1 hour warm-up before stability-sensitive measurements. Operate within C-band wavelength and input power limits per module faceplate and host configuration. Operational Notes Catalog IQ-6100 and OEM IQS-6100 refer to the same EDFA module—confirm facep

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.