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Data Sheet

August 14, 2026

ILX LIGHTWAVE

ILX Lightwave FOS-79800C: Source Modules

The ILX Lightwave FOS-79800C is a precision fiber optic source module engineered for integration into ILX Lightwave 7900 Series mainframes. Built around a Distributed Feedback (DFB) laser, this module delivers stabilized, tunable output across defined wavelength bands for WDM, CWDM, and component characterization applications including EDFAs, SOAs, and broadband fiber optic systems. Center wavelengths available at 1531.12 nm, 1531.90 nm, 1532.68 nm, 1533.46 nm, 1533.47 nm, 1535.82 nm, 1538.98 nm, and 1549.32 nm Power stability: ± 0.003 dB (mainframe specification); < 0.005 dB rms (FOS-79800E series) Dual-stage temperature control with low-noise laser current control for closed-loop constant power operation Modulation Capability



MODEL

**ILX Lightwave
FOS-79800C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

FOS-79800C

LISTING

<https://aumictechlabs.com/products/fos-79800c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave FOS-79800C is a precision fiber optic source module engineered for integration into ILX Lightwave 7900 Series mainframes. Built around a Distributed Feedback (DFB) laser, this module delivers stabilized, tunable output across defined wavelength bands for WDM, CWDM, and component characterization applications including EDFAs, SOAs, and broadband fiber optic systems. Technical Specifications Wavelength Performance C-Band operation: 1527.98 nm to 1564.26 nm (FOS-79800C/315HB variant) Center wavelengths available at 1531.12 nm,

1531.90 nm, 1532.68 nm, 1533.46 nm, 1533.47 nm, 1535.82 nm, 1538.98 nm, and 1549.32 nm
Tuning range: 1.7 nm with 0.001 nm resolution Wavelength stability: ± 0.003 nm Power & Stability
Output power: 10.5 dBm (FOS-79800C/315HB) Power stability: ± 0.003 dB (mainframe
specification); < 0.005 dB rms (FOS-79800E series) Dual-stage temperature control with low-
noise laser current control for closed-loop constant power operation Modulation Capability
Synchronous modulation: 1–500 kHz Internal modulation: up to 500 kHz Optional processor-
controlled mode: 100% depth, 50% duty cycle (FOS-79800F modules) Coherence & Linewidth
Control Adjustable linewidth: 30 MHz to 1 GHz SBS suppression and power stability enhancement
Key Features Designed for ILX Lightwave 7900 Series mainframes (e.g., FOM-7900B) High-
resolution attenuation for precise channel control Time-domain extinction testing capability via
synchronous modulation Extended wavelength support across S, C, and L-bands (1475 nm to
1625 nm) in related FOS-79800E and FOS-79800F variants ITU grid and custom wavelength
specifications available Typical Applications Wideband Code Division Multiple Access (WDM)
testing Coarse WDM (CWDM) system characterization EDFA gain and noise figure measurement
Semiconductor optical amplifier (SOA) evaluation Fiber optic component development and
validation Compatibility & Integration The FOS-79800C operates exclusively within ILX Lightwave
7900 Series mainframes, providing multi-wavelength test capability as part of a unified platform
for telecommunications and fiber optic research applications.

Features & description

From manufacturer datasheet

High power stability class

Telecom wavelength options class Modular FOS system architecture class GPIB or local control class
Technical Specifications Instrument Family: ILX FOS-79800C fiber optic source Source Type: laser
fiber coupled Wavelength Options Class: telecom band laser class Output Power Class: calibrated
mW/dBm class Power Stability Class: high stability class Fiber Type: singlemode Connector Interface:
FC/PC or APC class Form Factor: modular FOS chassis or benchtop class Remote Control: GPIB class
on family Display: wavelength and power class Operating Temperature Class: laboratory Series Family:
ILX FOS-79800 Modulation Class: configuration dependent Safety: laser product class per label Output
Attenuator Path: configuration dependent Warmup: specified stability after warm-up Spectral Width
Class: laser linewidth class AC Mains Powered: yes Form Factor Class: benchtop or rack per series
Operating Temperature Class: laboratory Remote Interface Class: GPIB or local per options Local Front
Panel Control: yes Cooling Class: convection or forced air Status Indicators: yes Protection Class:
instrument specific Calibration Path: OEM procedures Documentation: operating manual required for
fine limits Series Literature Tag Verified: yes

FOS79800C Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	ILX FOS-79800C fiber optic source
Source Type	laser fiber coupled
Wavelength Options Class	telecom band laser class
Output Power Class	calibrated mW/dBm class
Power Stability Class	high stability class
Fiber Type	singlemode
Connector Interface	FC/PC or APC class
Form Factor	modular FOS chassis or benchtop class
Remote Control	GPIB class on family
Display	wavelength and power class
Operating Temperature Class	laboratory
Series Family	ILX FOS-79800
Modulation Class	configuration dependent
Safety	laser product class per label
Output Attenuator Path	configuration dependent
Warmup	specified stability after warm-up
Spectral Width Class	laser linewidth class
AC Mains Powered	yes
Form Factor Class	benchtop or rack per series
Remote Interface Class	GPIB or local per options
Local Front Panel Control	yes
Cooling Class	convection or forced air
Status Indicators	yes
Protection Class	instrument specific
Calibration Path	OEM procedures

PARAMETER	VALUE
Documentation	operating manual required for fine limits
Series Literature Tag Verified	yes
Safety Earth Required	yes
Warmup Class	per OEM manual
Storage Class	per OEM environmental table
Linewidth	class
Power stability	Class: high stability class
Operating temperature	Class: laboratory

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Series Family	ILX FOS-79800
Modulation Class	configuration dependent
Safety	laser product class per label
Output Attenuator Path	configuration dependent
Warmup	specified stability after warm-up
Spectral Width Class	laser linewidth class
AC Mains Powered	yes
Form Factor Class	benchtop or rack per series
Remote Interface Class	GPIB or local per options
Local Front Panel Control	yes
Cooling Class	convection or forced air
Status Indicators	yes
Protection Class	instrument specific
Calibration Path	OEM procedures
Documentation	operating manual required for fine limits
Series Literature Tag Verified	yes
Safety Earth Required	yes
Warmup Class	per OEM manual
Storage Class	per OEM environmental table Notes Identity and capability rows from ILX FOS-79800C literature. Confirm exact wavelength output power and stability on the module/system 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	
Specifications	
PARAMETER	VALUE
Instrument Family	ILX FOS-79800C fiber optic source
Source Type	laser fiber coupled
Wavelength Options Class	telecom band laser class
Output Power Class	calibrated mW/dBm class
Power Stability Class	high stability class
Fiber Type	singlemode
Connector Interface	FC/PC or APC class
Form Factor	modular FOS chassis or benchtop class
Remote Control	GPIB class on family
Display	wavelength and power class
Operating Temperature Class	laboratory
Series Family	ILX FOS-79800
Modulation Class	configuration dependent
Safety	laser product class per label
Output Attenuator Path	configuration dependent
Warmup	specified stability after warm-up
Spectral Width Class	laser linewidth class
AC Mains Powered	yes
Form Factor Class	benchtop or rack per series
Operating Temperature Class	laboratory
Remote Interface Class	GPIB or local per options
Local Front Panel Control	yes
Cooling Class	convection or forced air
Status Indicators	yes
Protection Class	instrument specific
Calibration Path	OEM procedures

PARAMETER	VALUE
Documentation	operating manual required for fine limits
Series Literature Tag Verified	yes

Option Codes: confirm on faceplate

Specifications

PARAMETER	VALUE
Safety Earth Required	yes
Warmup Class	per OEM manual
Storage Class	per OEM environmental table

Notes
Identity and capability rows from ILX FOS-79800C literature. Confirm exact wavelength output power and stability on the module/system datasheet and calibration certificate.

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 ·
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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.