

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

ILX LIGHTWAVE

ILX Precision Fiber Optic Source FOS79800C 1527.99 nm, 196.2 THz

ILX Precision Fiber Optic Source FOS79800C 1527.99 nm, 196.2 THz The FOS79800C provides a WDM DFB fiber optic source module designed for ILX 7900-series mainframes, configured at 1527.99 nm (196.2 THz) on the ITU C-band edge with high-stability laser output and coherence-control and attenuation features of the 79800 source family. This C-variant precedes the FOS79800D generation—confirm model suffix on faceplate when ordering or configuring test systems. WDM channel source at ITU grid edge; transmitter and receiver test at 1527.99 nm; OSNR and amplifier test stimulus; coherence-controlled source measurements; modular fiber test mainframe integration; long-term wavelength stability monitoring and calibration reference. The FOS79800C provides a WDM DFB fiber optic source module designed for ILX 7900-series mainframes, configured at 1527.99 nm (196.2 THz) on the ITU C-band edge with high-stability laser output and coherence-control and attenuation features of the 79800 source family. This C-variant precedes the FOS79800D generation—confirm model suffix on faceplate when ordering or configuring test systems. WDM channel source at ITU grid edge; transmitter and receiver test at 1527.99 nm; OSNR and amplifier test stimulus; coherence-controlled source measurements; modular fiber test mainframe integration; long-term wavelength stability monitoring and calibration reference.



MODEL

**ILX Lightwave
FOS79800C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

FOS79800C

LISTING

<https://aumictechlabs.com/products/fos79800c-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 optical component and system testing. Operating at 1527.99 nm (196.2 THz), it delivers stable optical power with wavelength stability of ± 0.003 nm and output power stability better than 0.005 dB RMS. This module integrates coherence control for SBS suppression and internal synchronous modulation capability to 500 kHz, making it suitable for laboratory and production test environments demanding high accuracy and reliability.

Technical Specifications

Center Wavelength:	1527.99 nm
Operating Frequency:	196.2 THz
Wavelength Stability:	± 0.003 nm
Output Power Stability:	<0.005 dB RMS
Wavelength Resolution:	1 pm (0.001 nm)
Optical Interface:	FC/APC connector

Key Features

- Coherence Control for SBS suppression and power stability
- Internal Synchronous Modulation: 1–500 kHz range with 100% depth, 50% duty cycle
- Processor-controlled modulation mode with TTL-level outputs (normal and inverted)
- Rear panel modulation input for external synchronization
- GPIO/IEEE-488 and RS-232 control interfaces
- Plug-in module design for FOM-7900B mainframe integration

Optical Performance

Maximum Output Power:	up to 10 mW (standard configuration)
Power output to 20 mW available in alternative models	

Compatibility & Integration

Designed as a plug-in module for the ILX Lightwave FOM-7900B Fiber Optic System Mainframe. FOS-79800E modules with firmware version 6.1 or higher are recommended for FOM-7900B mainframes running version 3.4 or higher firmware.

Features & description

From manufacturer datasheet

Features

- WDM DFB fiber optic source module for 7900-series mainframe
- Factory configuration 1527.99 nm / 196.2 THz (ITU C-band edge class)
- High-stability DFB laser source
- Coherence control and attenuation family features
- Predecessor generation to FOS79800D module line
- Mainframe slot module form factor

FOS79800C Characteristics / Specifications

PARAMETER	VALUE
Model	FOS79800C (79800C)
Manufacturer	ILX Lightwave
Instrument Type	Precision Fiber Optic Source Module
Host Platform	ILX 7900-series mainframe
Wavelength	1527.99 nm
Frequency	196.2 THz
Band	ITU C-band edge class
Laser Type	DFB (WDM source)
Stability	High-stability DFB source class
Features	Coherence control and attenuation (79800 family)
Generation	Predecessor to FOS79800D
Alias	FOS79800C / 79800C Standard Operating Conditions Install in compatible 7900-series mainframe with adequate cooling airflow. Allow warm-up per mainframe and module guidelines before precision wavelength or power measurements. Operate within rated optical output power on faceplate.
Distinguish FOS79800C from FOS79800D	later D-generation modules may differ in control interface and option set. Confirm faceplate wavelength, frequency, and output power before connecting to sensitive receivers. Alias FOS79800C / 79800C.
Wavelength stability	monitoring and calibration reference.
Attenuation	features of the 79800 source family. This C-variant precedes the FOS79800D generation—confirm model suffix on faceplate when ordering or configuring test systems.

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	FOS79800C (79800C)
Manufacturer	ILX Lightwave
Instrument Type	Precision Fiber Optic Source Module
Host Platform	ILX 7900-series mainframe
Wavelength	1527.99 nm
Frequency	196.2 THz
Band	ITU C-band edge class
Laser Type	DFB (WDM source)
Stability	High-stability DFB source class
Features	Coherence control and attenuation (79800 family)
Generation	Predecessor to FOS79800D
Alias	FOS79800C / 79800C
Standard Operating Conditions	
Install in compatible 7900-series mainframe with adequate cooling airflow. Allow warm-up per mainframe and module guidelines before precision wavelength or power measurements. Operate within rated optical output power on faceplate.	
Operational Notes	
Distinguish FOS79800C from FOS79800D-later D-generation modules may differ in control interface and option set. Confirm faceplate wavelength, frequency, and output power before connecting to sensitive receivers. Alias FOS79800C / 79800C.	

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 2, 2026

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