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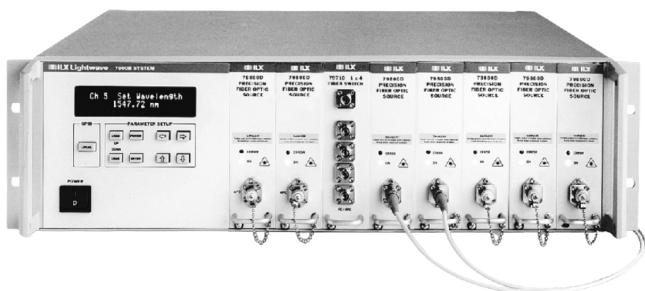
Data Sheet

August 2, 2026

ILX LIGHTWAVE

ILX Lightwave FOS79800D Precision Fiber Optic Source 1560.60nm ++

ILX Lightwave FOS79800D Precision Fiber Optic Source 1560.60nm ++ The ILX Lightwave FOS79800D isaWDM DFB fiber optic source module in the FOS-79800D/315 series designed for the FOM-7900B eight-bay mainframe, providing a user-selected calibrated output at 1560.60 nm with high stability for component and system test. WDM and DWDM component test requiring a stable C-band reference near 1560.60 nm; attenuation and transmission measurements with coherence control; automated optical test via FOM-7900B mainframe GPIB; long-term source stability checks in calibration and production. The ILX Lightwave FOS79800D isaWDM DFB fiber optic source module in the FOS-79800D/315 series designed for the FOM-7900B eight-bay mainframe, providing a user-selected calibrated output at 1560.60 nm with high stability for component and system test. WDM and DWDM component test requiring a stable C-band reference near 1560.60 nm; attenuation and transmission measurements with coherence control; automated optical test via FOM-7900B mainframe GPIB; long-term source stability checks in calibration and production.



MODEL

**ILX Lightwave
FOS79800D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

FOS79800D

LISTING

<https://aumictechlabs.com/products/fos79800d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave FOS-79800D is a precision fiber optic source module engineered for WDM system and component testing in telecommunications and research environments. It delivers spectrally pure, stable optical signals across the C- and L-bands with exceptional wavelength accuracy and power repeatability. The module integrates into the FOM-7900B mainframe platform, supporting remote control via GPIB/IEEE-488 and RS-232 interfaces for automated test sequences and multi-channel configurations.

Technical Specifications

- Wavelength Range: 1528 nm to 1610 nm (C-band: 1528–1564 nm; L-band: 1564–1610 nm), tunable across ± 0.85 nm with ± 0.05 nm accuracy
- Output Power: 13.0 dBm rated (315X2 series minimum 13 dBm; 315X1 series minimum 10 dBm)
- Wavelength Stability: ± 3 pm
- Power Stability: ± 0.003 dB short-term ($\pm 0.1^\circ\text{C}$ ambient); ± 0.05 dB long-term ($\pm 1^\circ\text{C}$ ambient) after 1-hour warm-up
- Spectral Width: 40 dB typical; >45 dB max
- Signal-to-Noise Ratio: >30 dB
- Optical Isolation: >30 dB
- Relative Intensity Noise (RIN): -145 dB/Hz
- Power Repeatability: ± 0.01 dB
- Optical Interface: Standard FC/APC

Key Features

- Internal synchronous modulation to 500 kHz with 100% depth and 50% duty cycle
- Rear panel TTL trigger input for external modulation control
- Transition times: 30 ms (OFF to ON), 10 ms (ON to OFF)
- Switch lifetime exceeding 10 million cycles
- ITU grid-aligned or custom wavelength configuration
- Mainframe trigger capability for multi-module synchronization

Typical Applications

- WDM system characterization and validation
- Component spectral testing and wavelength calibration
- Optical network performance monitoring
- Long-haul telecommunications system development

Compatibility & Integration

Designed for the ILX Lightwave FOM-7900B Fiber Optic System Mainframe. Up to 24 additional mainframes can be linked and controlled from a single GPIB address, enabling high-channel-density test configurations. Annual factory calibration recommended.

Features & description

From manufacturer datasheet

Features

- FOS-79800D/315 series DFB fiber optic source module for FOM-7900B mainframe
- User-selected ITU or custom wavelength; this unit configured at 1560.60 nm
- Wavelength within 315C1 C-band family range (1528–1564 nm); 1560.60 nm on C-band side of 315C1
- Output power ≥ 10 dBm (315×1 class) or ≥ 13 dBm (315×2 class) – confirm faceplate option
- Stability approximately 0.05 dB rms class
- Coherence control for reduced interference effects
- Built-in attenuation control
- Optional shutter
- Front-panel control via FOM-7900B; GPIB through mainframe

FOS79800D Characteristics / Specifications

PARAMETER	VALUE
Model	FOS-79800D / FOS79800D (315 series)
Manufacturer	ILX Lightwave (Newport)
Instrument Type	Precision Fiber Optic Source Module
Mainframe	FOM-7900B (8-bay)
Alias	FOS79800D / 79800D
Configured Wavelength	1560.60 nm
Wavelength Family	315C1 C-band (1528–1564 nm); 315L1 L-band (1564–1610 nm) for other order codes
Output Power	≥10 dBm (315×1); ≥13 dBm (315×2) – option dependent
Stability	approximately 0.05 dB rms class
Coherence Control	Provided
Attenuation	Internal attenuation control
Shutter	Optional
Control Path	Front panel and GPIB via FOM-7900B mainframe Standard Operating Conditions Install module in FOM-7900B mainframe slot per ILX mechanical and fiber routing guidance. Allow warm-up for specified stability before absolute power measurements. Verify wavelength and power option on module faceplate against test plan (1560.60 nm / 315×1 or 315×2).

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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Standard Operating Conditions	
Install module in FOM-7900B mainframe slot per ILX mechanical and fiber routing guidance. Allow warm-up for specified stability before absolute power measurements. Verify wavelength and power option on module faceplate against test plan (1560.60 nm / 315x1 or 315x2).	
Operational Notes	
1560.60 nm falls on the C-band side of the 315C1 range (1528–1564 nm), not the 315L1 L-band span (1564–1610 nm). Confirm faceplate wavelength and power tier (315x1 vs 315x2) when ordering spares or calibration. Alias FOS79800D and 79800D (hyphenless) appear in inventory systems.	

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.