

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ILX LIGHTWAVE

ILX Lightwave 7900B with FOS79800D Maninfram + ModuLe

The ILX Lightwave 7900B mainframe equipped with FOS79800D WDM DFB fiber optic source modules delivers laser characterization for multi-channel optical testing. This modular system accommodates up to 8 plug-in modules per mainframe, with the ability to link multiple units for up to 200 total channels. The FOS79800D series provides precise wavelength and power control across C-band and L-band spectra, making it suitable for WDM component validation, laser source characterization, and production test environments. Compatibility & Integration The FOS79800D modules integrate into the FOM-7900B mainframe. Multiple mainframes can be linked for extended channel capacity. Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave 7900B / FOS79800D. Calibration covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common ILX Lightwave 7900B / FOS79800D faults: laser diode end-of-life (output below spec), fiber output connector damage, output instability. Common repairs include laser diode replacement when output falls below spec, fiber output connector repair, and thermal management service.



MODEL

**ILX Lightwave
7900B /
FOS79800D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**7900B /
FOS79800D**

LISTING

<https://aumictechlabs.com/products/7900b-fo-s79800d-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Technical Specifications

Optical Output Wavelength range: 1528 nm to 1610 nm (ITU grid or custom); C-band (1527.99–1564.26 nm) and L-band (1564.27–1610.06 nm); 1310 nm available Output power: 10 dBm minimum (315X1 series); 13 dBm minimum (315X2 series) Wavelength stability: ± 3 pm with ± 0.003 dB power stability Tuning range: ± 0.85 nm (1.7 nm total per channel); 0.001 nm resolution Spectral width: 40 dB (>45 dB typical) Signal-to-background ratio: >30 dB Optical isolation: >30 dB Relative intensity noise: -145 dB/Hz Optical interface: FC/APC Modulation Internal synchronous modulation: up to 500 kHz Modulation frequency range: 1–500 kHz Modulation depth: 100%; duty cycle 50% Transition time: 30 ms (off to on); 10 ms (on to off) Repeatability: ± 0.01 dB Lifetime: >10 million cycles

Key Features

- Multi-channel laser source integration with scalable architecture
- Precise current and temperature management for laser diode control
- Tunable DFB lasers across extended C and L bands
- High spectral purity and low noise floor for component-level testing
- Modular plug-in design supports mixed module configurations

Typical Applications

- WDM system and component test and validation
- Laser diode characterization in R&D and production
- Multi-wavelength optical source deployment
- Fiber optic component performance verification

Compatibility & Integration

The FOS79800D modules integrate into the FOM-7900B mainframe. Multiple mainframes can be linked for extended channel capacity.

Features & description

From manufacturer datasheet

Technical Specifications

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Specifications

Parameter	Value
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ILX Lightwave 7900B / FOS79800D — Repair & Calibration Service

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ILX Lightwave 7900B / FOS79800D price

This ILX Lightwave 7900B / FOS79800D is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

ILX Lightwave 7900B / FOS79800D calibration cost

NIST-traceable calibration for the ILX Lightwave 7900B / FOS79800D is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

WDM system and component test and validation Laser diode characterization in R&D and production Multi-wavelength optical source deployment Fiber optic component performance verification Compatibility & Integration The FOS79800D modules integrate into the FOM-7900B mainframe. Multiple mainframes can be linked for extended channel capacity.

Unit notes

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7900B / FOS79800D Specifications

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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.

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

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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.