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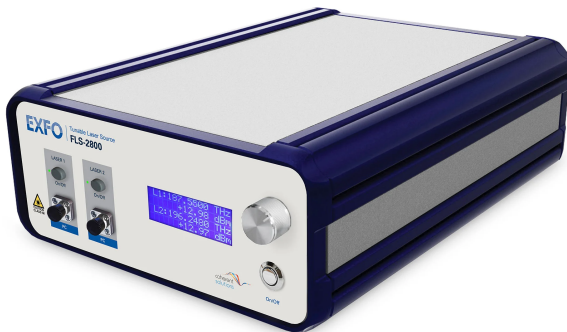
Data Sheet

August 13, 2026

EXFO

Exfo FLS-2800 ITLA Tunable Light Source

Exfo FLS-2800 – ITLA Tunable Light Source, ITLA-based tunable laser source offering precise wavelength control for DWDM component testing and network simulation. Delivers narrow linewidth, high power, and wavelength accuracy across the full C-band. Suitable for characterizing filters, multiplexers, and receivers in high-capacity fiber optic systems and photonic labs.



MODEL

Exfo FLS-2800

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FLS-2800

LISTING

<https://aumictechlabs.com/products/fls-2800-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO FLS-2800 is an ITLA-based tunable light source delivering precise wavelength control across the full C-band for demanding DWDM and optical network testing. It combines narrow linewidth, high optical power, and exceptional wavelength accuracy to characterize filters, multiplexers, receivers, and photonic integrated circuits in laboratory and field environments.

Technical Specifications

Laser Performance

Laser Type: ITLA (Integrated Tunable Laser Assembly)

Tuning Range: Full C-band (1529.16 nm to 1563.05 nm)

Wavelength Accuracy: ± 2.5 pm (typical)

Wavelength Stability: ± 1 pm over 1 hour (after warm-up)

Linewidth: < 50 kHz typical (-3 dB spectral width)

Linewidth Stability: < 1 pm/h (typical, after warm-up)

Tuning Speed: 30 dB (typical)

Spurious Signals: < -70 dBc (typical)

RIN: < -150 dBc/Hz (typical, at 10 kHz offset)

Control & Interface

User Interface: Touchscreen display with physical controls

Remote Control:

USB, Ethernet Programmable Wavelength Grids: ITU-T grid support (50 GHz, 100 GHz spacing)
Sweep Modes: Step-sweep, continuous sweep Electrical & Physical Power Requirements: 100-240 VAC, 50/60 Hz Power Consumption: < 150 W (typical) Dimensions: 177 mm H × 430 mm W × 400 mm D Weight: Approximately 10 kg Operating Temperature: 0 °C to 40 °C Storage Temperature: -20 °C to 60 °C Operating Humidity: 20% to 80% RH (non-condensing)Key Features
Full C-band tuning with ± 2.5 pm wavelength accuracy Sub-50 kHz linewidth for precise spectral measurements Configurable output power (10–13 dBm) with exceptional stability Fast wavelength switching (< 5 seconds full sweep) Integrated touchscreen and dual-interface remote controlTypical Applications DWDM component testing (filters, mux/demux, splitters) Optical receiver and amplifier characterization Photonic integrated circuit validation Network simulation and R&D Wavelength calibration and metrologyCompatibility & Integration The FLS-2800 interfaces via USB and Ethernet for automated test systems. Standard fiber optic connectors (FC/APC, SC/APC) enable straightforward integration into existing optical benches and measurement setups.

Features & description

From manufacturer datasheet

Features

• CW thermally tuned external-cavity diode laser (ECDL/ITLA) • Instantaneous linewidth <100 kHz • C and L band tunability (configuration dependent) • High resolution wavelength/frequency tuning • High optical output power class up to 15 dBm (H option on related FLS-2800) • TIM/SCPI remote control shared with FLS-2800 software ecosystem • Modular IQS slot form factor

Applications

• 100G/400G coherent transmission lab testing • OFDM and advanced modulation format research • WDM network emulation and component characterization • Narrow-linewidth local oscillator / probe laser use • Automated multi-laser racks in IQS modular systems

Polarization extinction ratio PM output: >20 dB

RIN at 13 dBm: -145 dB/Hz (10 MHz to 40 GHz) Specification temperature: 23 °C ± 3 °C Platform: IQS modular chassis (IQS-636 class) Notes Numeric optical specs drawn from EXFO FLS-2800 ITLA datasheet (companion product) plus IQS-2800 press materials (C/L bands, <100 kHz linewidth, 10 pm resolution statement). Confirm IQS slot configuration, band options, and power grade on the module label.

FLS2800 Characteristics / Specifications

PARAMETER	VALUE
Model	IQS-2800
Manufacturer	EXFO
Instrument Type	Modular ITLA Tunable CW Laser Source
Alias	IQS-2800; IQS2800 ITLA Tunable Laser Source
Laser type	CW thermally tuned ECDL / ITLACband wavelength range: 1527.605 nm to 1567.133 nmCband frequency range: 191.30 THz to 196.25 THzLband wavelength range: 1567.133 nm to 1608.760 nmLband frequency range: 186.35 THz to 191.30 THz
Frequency tuning resolution	100 MHz (1 pm class on FLS-2800 family)
Press stated tuning resolution	10 pm
Tuning time	<25 s
Linewidth FWHM instantaneous	<100 kHz
Side mode suppression ratio	40 dB min (55 dB typical)
Frequency linearity	± 1.5 GHz (± 13 pm)
Frequency uncertainty	± 2.5 GHz (± 22 pm)
Frequency stability 24 hours	± 0.3 GHz (± 3 pm)
Max output power standard S	≥ 13 dBm
Max output power high H	≥ 15 dBm (C/CC class)
Min output power standard S	≤ 7 dBm
Min output power high H	≤ 8 dBm
Output power step size	0.01 dB
Optical power uncertainty after calibration	± 0.6 dB
Power stability 24 hours	± 0.1 dB (2 σ)
Power flatness peak to peak	0.5 dB over band
Polarization extinction ratio PM output	>20 dB
RIN at 13 dBm	-145 dB/Hz (10 MHz to 40 GHz)

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Specification temperature	23 °C ± 3 °C
Platform	IQS modular chassis (IQS-636 class) Notes Numeric optical specs drawn from EXFO FLS-2800 ITLA datasheet (companion product) plus IQS-2800 press materials (C/L bands, <100 kHz linewidth, 10 pm resolution statement). Confirm IQS slot configuration, band options, and power grade on the module label.
Wavelength range	1527.605 nm to 1567.133 nmCband frequency range: 191.30 THz to 196.25 THzLband wavelength range: 1567.133 nm to 1608.760 nmLband frequency range: 186.35 THz to 191.30 THz
Linewidth	local oscillator / probe laser use - Automated multi-laser racks in IQS modular systems
Power stability	24 hours: ±0.1 dB (2 σ)
Polarization extinction ratio	PM output: >20 dB

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.

performance aligns with the companion FLS-2800 benchtop ITLA family.

Applications

- 100G/400G coherent transmission lab testing
- OFDM and advanced modulation format research
- WDM network emulation and component characterization
- Narrow-linewidth local oscillator / probe laser use
- Automated multi-laser racks in IQS modular systems

Key Features

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C band wavelength range	1527.605 nm to 1567.133 nm
C band frequency range	191.30 THz to 196.25 THz
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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

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<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.