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Data Sheet
August 13, 2026

EXFO

Exfo IQS-2800 Tunable Light Source

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) 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) Side mode suppression ratio: 40 dB min (55 dB typical)

MODEL **Exfo IQS-2800**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **IQS-2800**	LISTING **https://aumictechlabs.com/products/iqs-2800-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO IQS-2800 is a modular tunable light source built on an external cavity diode laser (ECDL) architecture, delivering narrow-linewidth output across C, L, and A bands. Designed for coherent transmission testing, WDM network emulation, and DWDM component characterization, It has 10 pm tuning resolution, sub-100 kHz instantaneous linewidth, and ±0.1 dB power stability over 24 hours. Output power is available in Standard (13.5 dBm) or High (15.5 dBm) configurations,

with <0.5 dB power flatness across the band.The module integrates into the IQS-636 platform, allowing up to nine units per chassis for multi-wavelength test setups. Frequency tuning supports 25 GHz ITU-grid spacing. Control is via USB or Ethernet, with PM FC/UPC or PM SC/UPC connectors.Operating range: 5 °C to 45 °C; storage to -40 °C to 70 °C. Laser safety compliance: CFR 1040.10 and IEC 60825-1:2007 Class 1M.Technical Specifications Laser Type: Thermally tuned external cavity diode laser (ECDL) Wavelength Bands: C band, L band, A band Tuning Resolution: 10 pm Linewidth (FWHM, instantaneous): <100 kHz Output PowerStandard: 13.5 dBm; High: 15.5 dBmPower Stability (24 hours): ±0.1 dBPower Flatness over Frequency (BOL): <0.5 dBFrequency Step Size (ITU-grid mode): 25 GHzOperating Temperature: 5 °C to 45 °CStorage Temperature: -40 °C to 70 °CRelative Humidity: ≤93 % non-condensingMaximum Altitude: 2000 mConnectors: PM FC/UPC or PM SC/UPCDimensions: 41 mm (W) × 305 mm (D) × 129 mm (H)Weight: 1.7 kgKey Features High spectral purity with <100 kHz linewidth for coherent detection applications Fine tuning resolution (10 pm) across extended wavelength coverage Excellent power stability and flatness for repeatable measurements Multi-band availability accommodates diverse test scenariosTypical Applications Coherent optical transmission testing WDM network emulation and validation DWDM component characterizationCompatibility & Integration The IQS-2800 module seats within the IQS-636 platform. Up to nine modules can occupy a single chassis, enabling multi-wavelength test configurations within a compact footprint. Remote operation via USB or Ethernet integration with test systems and automated measurement environments.

Features & description

From manufacturer datasheet

Features

• CW thermally tuned external-cavity diode laser (ECDL/ITLA) • Instantaneous linewidth <100 kHz • C andLband 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.

IQS2800 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)

PARAMETER	VALUE
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
- CW thermally tuned external-cavity diode laser (ECDL/ITLA)
- Instantaneous linewidth <100 kHz
- C andLband 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

Technical Specifications

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Instrument Type	Modular ITLA Tunable CW Laser Source
Alias	IQS-2800; IQS2800 ITLA Tunable Laser Source
Laser type	CW thermally tuned ECDL / ITLA
C band wavelength range	1527.605 nm to 1567.133 nm
C band frequency range	191.30 THz to 196.25 THz
L band wavelength range	1567.133 nm to 1608.760 nm
L band 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
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Frequency linearity	±1.5 GHz (±13 pm)
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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

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