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Data Sheet

August 13, 2026

SANTEC

Santec ECL-200 Tunable Filter

Key Features - Plug-in ECL module for MLS-8000 / MLS-2100 - Greater than 100 nm OBPF coarse range; FINE grid-filter tune - Resolution less than 0.024 nm (mainframe pot); less than 0.01 nm fine - Peak output greater than 8 mW typical listings; APC and coherence control - Linewidth typically 150 kHz / less than 0.2 MHz (coherence off); 0.2 to 200 MHz (on) - GPIB/RS-232C via mainframe; notastandalone OTF filter Technical Specifications Model: ECL-200 Manufacturer: Santec Instrument Type: External Cavity Tunable Laser Module Series: ECL-200 / ECL-210 multi-channel LD Alias: ECL-200; ECL200; ECL-200-530630 Host Mainframe: MLS-8000 (max 8 ch) or MLS-2100 (max 2 ch) Tuning Mechanism Coarse: dielectric optical bandpass filter (OBPF) Tuning Mechanism Fine: temperature-controlled grid filter (ELF/FLF), 0.



MODEL

Santec ECL-200

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ECL-200

LISTING

<https://aumictechlabs.com/products/ecl-200-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Santec ECL-200 is a tunable laser diode module engineered for optical communication, metrology, and spectroscopy applications. It delivers precise wavelength control with stable optical output and integrates into multi-channel light source mainframes for advanced testing setups. The module combines manual coarse tuning with electronic fine-wavelength adjustment for flexible wavelength selection across specified ranges. Technical Specifications Wavelength Range: Multiple configurations available including 1270–1350 nm, 1430–1630 nm, 1490–1630 nm,

and 1530–1630 nm; tuning range exceeds 100 nm Optical Output Power: Greater than 8 mW typical; peak output >10.0 dBm Spectral Linewidth: <0.2 MHz with coherent control OFF; 0.2–200 MHz with coherent control ON Wavelength Resolution: <0.024 nm Optical Power Stability: <±0.01 dB Fiber Type: Single-mode Connector: FC/APC Tuning Mechanism: Manual coarse adjustment (100±5 GHz / ~0.8 nm steps) and electronic fine tuning (0.01 nm resolution)Key Features Coherence control functionality for linewidth management Automatic Power Control (APC) for output stability Dual-stage wavelength tuning: coarse manual and fine electronic control Single-mode fiber output with FC/APC connector GPIB/RS-232C remote control interfaceInterfaces & Control Remote operation via GPIB/RS-232C communication LabVIEW™ and Visual Basic™ driver support Supports automated measurement workflowsCompatibility & Integration Designed for operation within Santec Multi-Channel Light Source Mainframes (MLS-8000 supporting up to 8 channels; MLS-2100 supporting up to 2 channels). Can also operate as a standalone unit with external power source via I/O connector.

Features & description

From manufacturer datasheet

Features

- Plug-in ECL module for MLS-8000 / MLS-2100
- Greater than 100 nm OBPF coarse range; FINE grid-filter tune
- Resolution less than 0.024 nm (mainframe pot); less than 0.01 nm fine
- Peak output greater than 8 mW typical listings; APC and coherence control
- Linewidth typically 150 kHz / less than 0.2 MHz (coherence off); 0.2 to 200 MHz (on)
- GPIB/RS-232C via mainframe; not a standalone OTF filter

High Power Family: greater than 10 mW typical on ECL-200/210 family pages

Power Stability Listing: less than +/-0.01 dB Spectral Linewidth Off: less than 0.2 MHz (coherence control OFF) Spectral Linewidth On: 0.2 to 200 MHz (coherence control ON) Linewidth Quick Start: typically 150 kHz Fiber Type Example: SMF Connector Example: FC/APC (one listing); FC family SSR Family: 50 dB typical on related ECL-210 Modulation Family: LF modulation on ECL-210 table 0 to 10 kHz Laser Safety Class Related: 3A on ECL-210 spec table APC: automatic power control Coherence Control: yes Remote: GPIB / RS-232C via mainframe Example Order Elements: fiberSSMF; connectorFFC; polish AP APC; modulation 00 none; power 0 normal Related Module: ECL-210 fully electronic coarse and fine plus 0 to 20 dB OVA ECL210 Fine Range: 200 GHz (1.6 nm typ) ECL210 Accuracy Table: 0.1 nm accuracy; 0.01 nm repeatability/stability (1 hour) Not a Filter: ECL-200 is a tunable laser module, not an OTF-950 class filter Notes Research confirms ECL-200 is an external-cavity tunable laser module for MLS-8000, not a tunable filter. Specs from Santec ECL-200/MLS-8000 manuals and listings. Confirm wavelength window, SMF/PMF, and polish on the module label.

ECL200 Characteristics / Specifications

PARAMETER	VALUE
Model	ECL-200
Manufacturer	Santec
Instrument Type	External Cavity Tunable Laser Module
Series	ECL-200 / ECL-210 multi-channel LD
Alias	ECL-200; ECL200; ECL-200-530630
Host Mainframe	MLS-8000 (max 8 ch) or MLS-2100 (max 2 ch)
Tuning Mechanism Coarse	dielectric optical bandpass filter (OBPF)
Tuning Mechanism Fine	temperature-controlled grid filter (ELF/FLF), 0.8 nm period
Wavelength Range Example A	1530 to 1630 nm
Wavelength Range Family	selectable 1270 to 1350 nm and 1430 to 1630 nm class windows
Minimum Tuning Family	80 nm (related ECL-210 table)
Resolution	less than 0.024 nm; less than 0.01 nm with fine temperature adjust
Optical Output Peak Listing	greater than 8 mW
High Power Family	greater than 10 mW typical on ECL-200/210 family pages
Power Stability Listing	less than +/-0.01 dB
Spectral Linewidth Off	less than 0.2 MHz (coherence control OFF)
Spectral Linewidth On	0.2 to 200 MHz (coherence control ON)
Linewidth Quick Start	typically 150 kHz
Fiber Type Example	SMF
Connector Example	FC/APC (one listing); FC family
SSR Family	50 dB typical on related ECL-210
Modulation Family	LF modulation on ECL-210 table 0 to 10 kHz
Laser Safety Class Related	3A on ECL-210 spec table
APC	automatic power control
Coherence Control	yes

PARAMETER	VALUE
Remote	GPIOB / RS-232C via mainframe
Example Order Elements	fiberSSMF; connectorFFC; polish AP APC; modulation 00 none; power 0 normal
Related Module	ECL-210 fully electronic coarse and fine plus 0 to 20 dB OVA
ECL210 Fine Range	200 GHz (1.6 nm typ)
ECL210 Accuracy Table	0.1 nm accuracy; 0.01 nm repeatability/stability (1 hour)
NotAFilter	ECL-200 is a tunable laser module, not an OTF-950 class filter. Notes: Research confirms ECL-200 is an external-cavity tunable laser module for MLS-8000, not a tunable filter. Specs from Santec ECL-200/MLS-8000 manuals and listings. Confirm wavelength window, SMF/PMF, and polish on the module label.
Wavelength range	Example A: 1530 to 1630 nm
Linewidth	less than 0.2 MHz with coherence control off. ECL-210 adds full electronic coarse/fine tuning and a built-in OVA.
Power stability	Listing: less than +/-0.01 dB
Fiber type	Example: SMF

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	ECL-200
Manufacturer	Santec
Instrument Type	External Cavity Tunable Laser Module
Series	ECL-200 / ECL-210 multi-channel LD
Alias	ECL-200; ECL200; ECL-200-530630
Host Mainframe	MLS-8000 (max 8 ch) or MLS-2100 (max 2 ch)
Tuning Mechanism Coarse	dielectric optical bandpass filter (OBPF)
Tuning Mechanism Fine	temperature-controlled grid filter (ELF/FLF), 0.8 nm period
Wavelength Range Example A	1530 to 1630 nm
Wavelength Range Family	selectable 1270 to 1350 nm and 1430 to 1630 nm class windows
Minimum Tuning Family	80 nm (related ECL-210 table)
Resolution	less than 0.024 nm; less than 0.01 nm with fine temperature adjust
Optical Output Peak Listing	greater than 8 mW
High Power Family	greater than 10 mW typical on ECL-200/210 family pages
Power Stability Listing	less than +/-0.01 dB
Spectral Linewidth Off	less than 0.2 MHz (coherence control OFF)
Spectral Linewidth On	0.2 to 200 MHz (coherence control ON)
Linewidth Quick Start	typically 150 kHz
Fiber Type Example	SMF
Connector Example	FC/APC (one listing); FC family
SSR Family	50 dB typical on related ECL-210
Modulation Family	LF modulation on ECL-210 table 0 to 10 kHz
Laser Safety Class Related	3A on ECL-210 spec table
APC	automatic power control
Coherence Control	yes
Remote	GPIOB / RS-232C via mainframe

PARAMETER	VALUE
Example Order Elements	fiberSSMF; connectorFFC; polish AP APC; modulation 00 none; power 0 normal
Related Module	ECL-210 fully electronic coarse and fine plus 0 to 20 dB OVA
ECL210 Fine Range	200 GHz (1.6 nm typ)
ECL210 Accuracy Table	0.1 nm accuracy; 0.01 nm repeatability/stability (1 hour)
NotAFilter	ECL-200 isatunable laser module, not an OTF-950 class filter

Notes

Research confirms ECL-200 is an external-cavity tunable laser module for MLS-8000, notatunable filter. Specs from Santec ECL-200/MLS-8000 manuals and listings. Confirm wavelength window, SMF/PMF, and polish on the module label.

Laser Safety

Laser Safety Class Related: 3A on ECL-210 spec table APC: automatic power control Coherence Control: yes Remote: GPIB / RS-232C via mainframe Example Order Elements: fiberSSMF; connectorFFC; polish AP APC; modulation 00 none; power 0 normal Related Module: ECL-210 fully electronic coarse and fine plus 0 to 20 dB OVA ECL210 Fine Range: 200 GHz (1.6 nm typ) ECL210 Accuracy Table: 0.1 nm accuracy; 0.01 nm repeat

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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30-day returns
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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.