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Data Sheet

August 14, 2026

EXFO

Exfo IQS-1643 4-Channel Power Meter Module

Aumictech offers NIST-traceable calibration and repair for the Exfo IQS-1643T-PL-SN. Calibration covers wavelength accuracy at 850, 1310, 1550, and 1625 nm, power level accuracy, resolution bandwidth (RBW) accuracy, and dynamic range verification. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common Exfo IQS-1643T-PL-SN faults: wavelength motor failure, internal light source dimming, detector sensitivity loss. Common repairs include wavelength motor servicing, internal broadband source replacement, and detector recalibration after extended use. This Exfo IQS-1643T-PL-SN is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units. NIST-traceable calibration for the Exfo IQS-1643T-PL-SN is (standard — pass/fail certificate and calibration sticker)

**MODEL****Exfo IQS-1643T-PL-SN****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****IQS-1643T-PL-SN****LISTING**<https://aumictechlabs.com/products/iqs-1643t-pl-sn-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo IQS-1643T-PL-SN is an optical spectrum analyzer module tailored for the IQS-600 platform, providing accurate spectral analysis. It has a wide wavelength range to accommodate diverse optical signals, high resolution for detailed spectral analysis, and rapid scanning capabilities for efficient testing. Designed for demanding applications, this module excels in

DWDM network analysis, spectral component testing, and laser characterization, offering a solution for optical measurement needs.

Features & description

From manufacturer datasheet

Polarization Dependence: low-PDL PL option

Noise Peak To Peak Class: 3 pW class 1 mm InGaAs Notes From EXFO IQS-1600 High Speed Power Meter user guide introducing IQS-1643T-PL-SN and PM-1600/IQS-1643-PL optical tables. Confirm T-specific system calibration notes on the IQS-12004B report.

IQS1643TPLSN Characteristics / Specifications

PARAMETER	VALUE
Model	IQS-1643T-PL-SN
Number Of Detectors	4
Detector Type	InGaAs low-PDL
Wavelength Range	800 to 1700 nm
Power Range	9 to minus 80 dBm
Linearity	plus or minus 0.015 dB from 0 to minus 55 dBm
Power Resolution	0.001 dB from 9 to minus 40 dBm
Wavelength Resolution	0.01 nm
Sampling Rate Fast Acquisition	up to 4096 sample/s/channel
Sampling Rate Continuous	up to 256 sample/s/channel
Stabilization Time Fixed Range	1 ms
External Trigger	0 to 5 V TTL
Module Size HxWxD	125 mm x 36 mm x 282 mm
Related Stand Alone	IQS-1643-PL-SN
System Integration	IQS-12004B DWDM PCT
Bands Covered	C andLfor IQS-12004B customers
Platform	IQS-500 / IQS-600
Remote Control	via IQS host SCPI LabVIEW
Fiber Type	5/125 to 62.5/125 um
Operating Temperature	0 C to 40 C
Polarization Dependence	low-PDL PL option
Noise Peak To Peak Class	3 pW class 1 mm InGaAs

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 40 C
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Polarization Dependence	low-PDL PL option
Noise Peak To Peak Class	3 pW class 1 mm InGaAs Notes From EXFO IQS-1600 High Speed Power Meter user guide introducing IQS-1643T-PL-SN and PM-1600/IQS-1643-PL optical tables. Confirm T-specific system calibration notes on the IQS-12004B report.

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 are very close to the IQS-1643-PL-SN stand-alone module, with an external connector used only with the IQS-12004B system for C- and L-band applications.

Applications

DWDM passive component IL/PDL testing inside IQS-12004B, multi-channel high-speed power acquisition acrossCandLbands, and automated photonic ATE with low-PDL detectors.

Key Features

Four-channel InGaAs high-speed power meter

Low-PDL PL configuration

IQS-12004B system external connector

Specifications aligned to IQS-1643-PL-SN

Triggered high-speed acquisition

Technical Specifications

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Notes
From EXFO IQS-1600 High Speed Power Meter user guide introducing IQS-1643T-PL-SN and PM-1600/IQS-1643-PL optical tables. Confirm T-specific system calibration notes on the IQS-12004B report.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.